



December 6, 2005

Mr. Jim Tischler
North Coast Regional Water Quality Control Board
5550 Skylane Dr., Ste. A
Santa Rosa, CA 95403

**RE: 2nd AND 3rd QUARTER 2005 MONITORING WELL SAMPLING REPORT AND
RECOMMENDATION FOR FEASIBILITY STUDY/CORRECTIVE ACTION
PLAN
FORMER GASOLINE UNDERGROUND STORAGE TANK
SONOMA COUNTY AGRICULTURE BUILDING
2604 VENTURA AVENUE, SANTA ROSA, CALIFORNIA
EBA Project No. 00-750-4 (31)**

Dear Mr. Tischler:

Please find enclosed the Second and Third Quarter 2005 Quarterly Monitoring Well Sampling Report and Recommendation for Feasibility Study/Corrective Action Plan (FS/CAP) prepared by EBA Engineering (EBA) for the site located at 2604 Ventura Avenue in Santa Rosa, California (Figure 1). Groundwater monitoring is being conducted in accordance with a letter from the North Coast Regional Water Quality Control Board (NCRWQCB) dated January 31, 2005.

QUARTERLY MONITORING AND SAMPLING

On April 6 and July 12, 2005, EBA personnel collected groundwater samples and recorded groundwater level measurements from monitoring wells BE-4 and MW-3 through MW-8. The measurements were used to calculate groundwater flow direction and gradient. During these April and July sampling events, the groundwater flow directions were calculated to be approximately South 76° West and North 87° West, respectively, with gradients of 0.007 foot/foot. The corresponding groundwater elevation data are shown on the Potentiometric Surface Maps (Figures 2 and 3) and are summarized in Table 1.

Prior to sampling, the wells were purged of standing water to aid in collecting a representative sample of formation water. Field data sheets detailing groundwater pH, electrical conductivity, and temperature during the purging of monitoring wells BE-4 and MW-3 through MW-8 are attached. Each monitoring well was purged until the water quality parameters had stabilized and a minimum of three well volumes was removed. Purge water is stored on-site in properly labeled 55-gallon DOT 17H drums pending disposal.

During the second quarter, groundwater samples were collected from BE-4 and MW-3 through MW-8. During the third quarter, groundwater samples were collected from BE-4 and MW-6 through MW-8. All groundwater samples were obtained using a single sample disposable bailer fitted with a bottom-emptying device to minimize water degassing. Groundwater samples were transferred into properly labeled, laboratory-supplied sterile sample containers. The groundwater samples were logged on a Chain-of-Custody form and placed under refrigerated conditions. A courier from Alpha Analytical Laboratories, Inc., a California State-certified laboratory, picked up the refrigerated samples for chemical analytical testing. The Certified Analytical Reports and Chain-of-Custody Records are included with this report.

GROUNDWATER ANALYSIS

The groundwater samples were analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline (TPH-g) using Environmental Protection Agency (EPA) Method 8260GRO and TPH as diesel (TPH-d) using EPA Method 8015DRO. Benzene, toluene, ethylbenzene, total xylenes (BTEX), lead scavengers, and the five fuel oxygenates [Methyl tert-Butyl Ether (MtBE), Di-Isopropyl Ether (DIPE), Ethyl tert-Butyl Ether (EtBE), Tert-Amyl Methyl Ether (TAME), Tert-Butyl Alcohol (TBA)] were analyzed using EPA Method 8260B.

ANALYTICAL RESULTS

Analytical results obtained during the second and third quarters indicate that samples collected from monitoring well MW-6 contained detectable levels of TPH-g, TPH-d, benzene, ethylbenzene, and total xylenes. Concentrations of toluene were reported in the groundwater sample collected from MW-6 in the third quarter, only. Also, MtBE was detected in samples collected from monitoring wells MW-6 and MW-7 at concentrations ranging from 2.5 to 4.8 micrograms per liter ($\mu\text{g/L}$).

All other analytes in groundwater samples collected during the second and/or third quarters from monitoring wells BE-4 and MW-3, MW-4, MW-5 and MW-8 were below the respective laboratory Practical Quantitation Limits (PQL's). Analytical results are summarized in Tables 2, 3, and 4. Copies of the Certified Analytical Reports are enclosed.

RECOMMENDATION

Results from previous investigative activities including quarterly monitoring of groundwater elevations and concentrations in monitoring wells BE-4 and MW-3 through MW-6 suggest that the majority of petroleum hydrocarbon concentrations in groundwater are located proximal to the former UST excavation in the vicinity of MW-6. Furthermore, additional information gathered during the February 2004 investigation from soil borings and subsequent monitoring and sampling of monitoring wells MW-7 and MW-8 indicate that concentrations of petroleum hydrocarbons in groundwater have been adequately defined in the lateral and vertical directions.

EBA, therefore, proposes that a FS/CAP be prepared in which several treatment methodologies will be analyzed for technical applicability for remediation of soil, groundwater, and the capillary fringe.

Methodologies selected based on technical application will also undergo a feasibility study in which anticipated costs, removal time, and possible site impacts will be discussed. Conclusions, recommendations, and a Corrective Action Work Plan will be included for the implementation of the selected treatment methodology(s).

EBA is looking forward to beginning this scope of work upon regulatory approval. If you have any comments or questions, please feel free to call at (707) 544-0784. Thank you for your time and consideration in reviewing this document.

Sincerely,
EBA ENGINEERING



Maxwell Wilmarth
Staff Geologist

Reviewed by

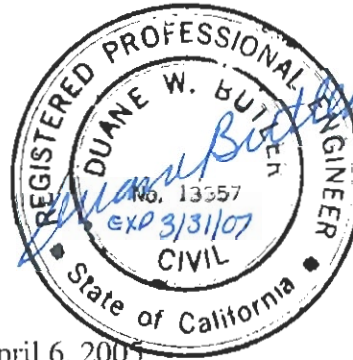


Matthew Earnshaw, P.G.
Project Geologist

Supervised by



Duane Butler, P.E.
C.E. #13357



Attach: Figure 1: Location Map

Figure 2: Potentiometric Surface Map – April 6, 2005

Figure 3: Potentiometric Surface Map – July 12, 2005

Table 1: Monitoring Well Survey and Water Level Data

Table 2: Groundwater Sample Analytical Results; TPH-g, TPH-d, & BTEX

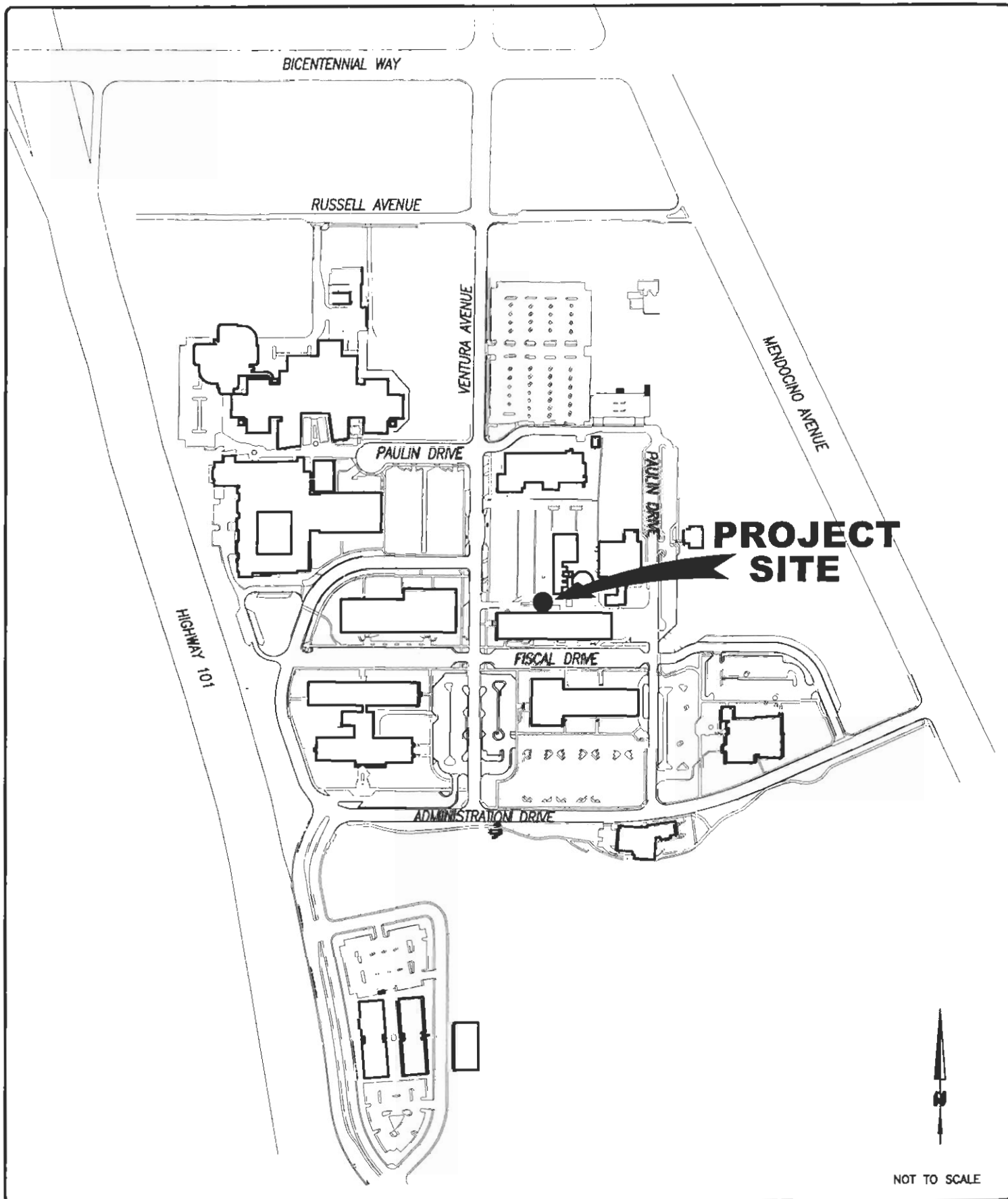
Table 3: Groundwater Sample Analytical Results; Fuel Oxygenates

Table 4: Groundwater Sample Analytical Results; Lead Scavengers & Dissolved/Total Lead

Field Data Sheets

Certified Analytical Reports and Chain-of-Custody Records

cc: Frank Donahue, Sonoma County Facilities Operations, 2680 Ventura Ave., Santa Rosa, CA 95403



LOCATION MAP

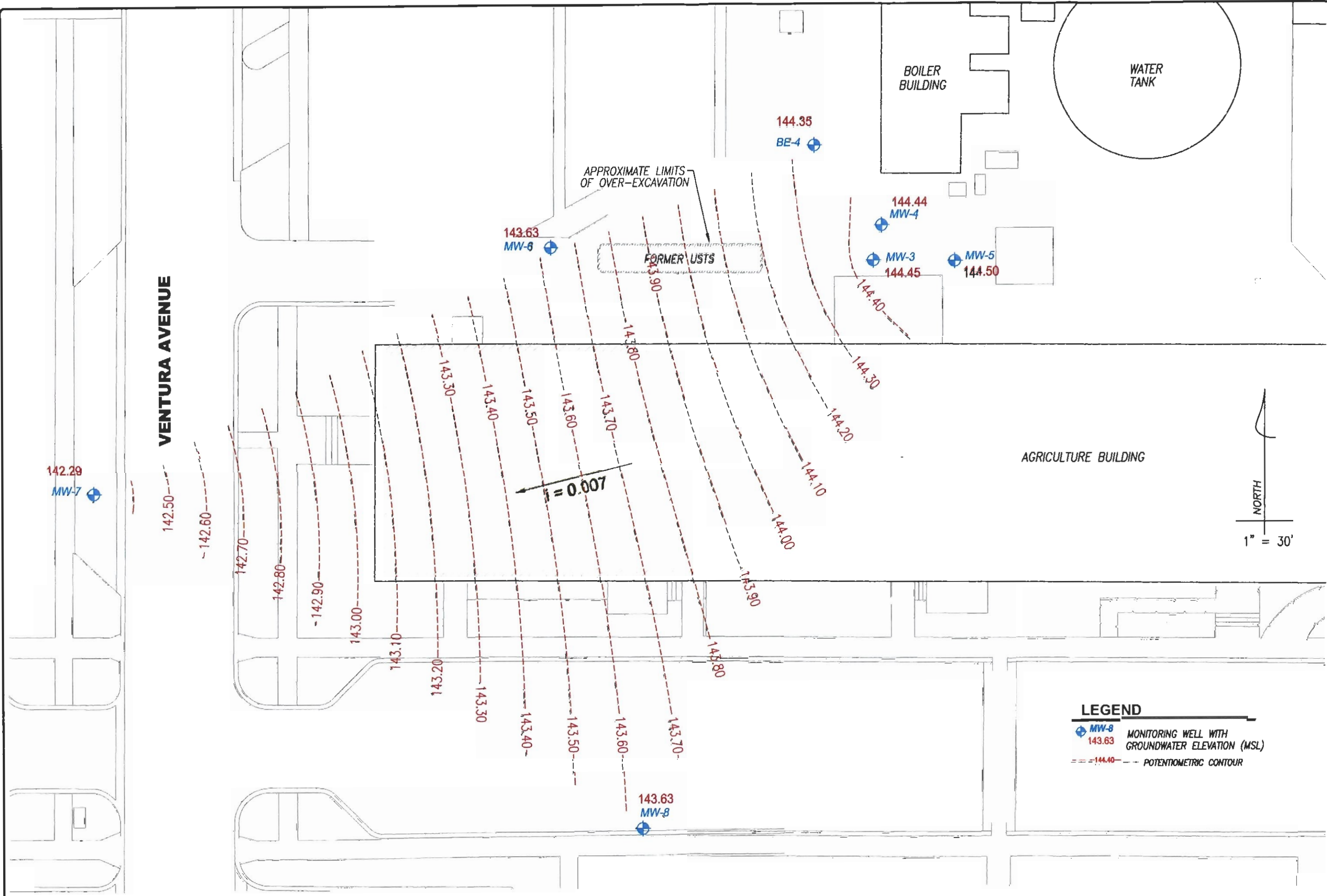
SONOMA COUNTY AGRICULTURE BUILDING/OLD GAS STATION TANK
2604 VENTURA AVENUE
SANTA ROSA, CALIFORNIA

FIGURE

1

00-750-04

POTENTIOMETRIC SURFACE MAP
APRIL 6, 2005
SONOMA COUNTY AGRICULTURE BUILDING/OLD GAS STATION TANK
2604 VENTURA AVENUE
SANTA ROSA, CALIFORNIA



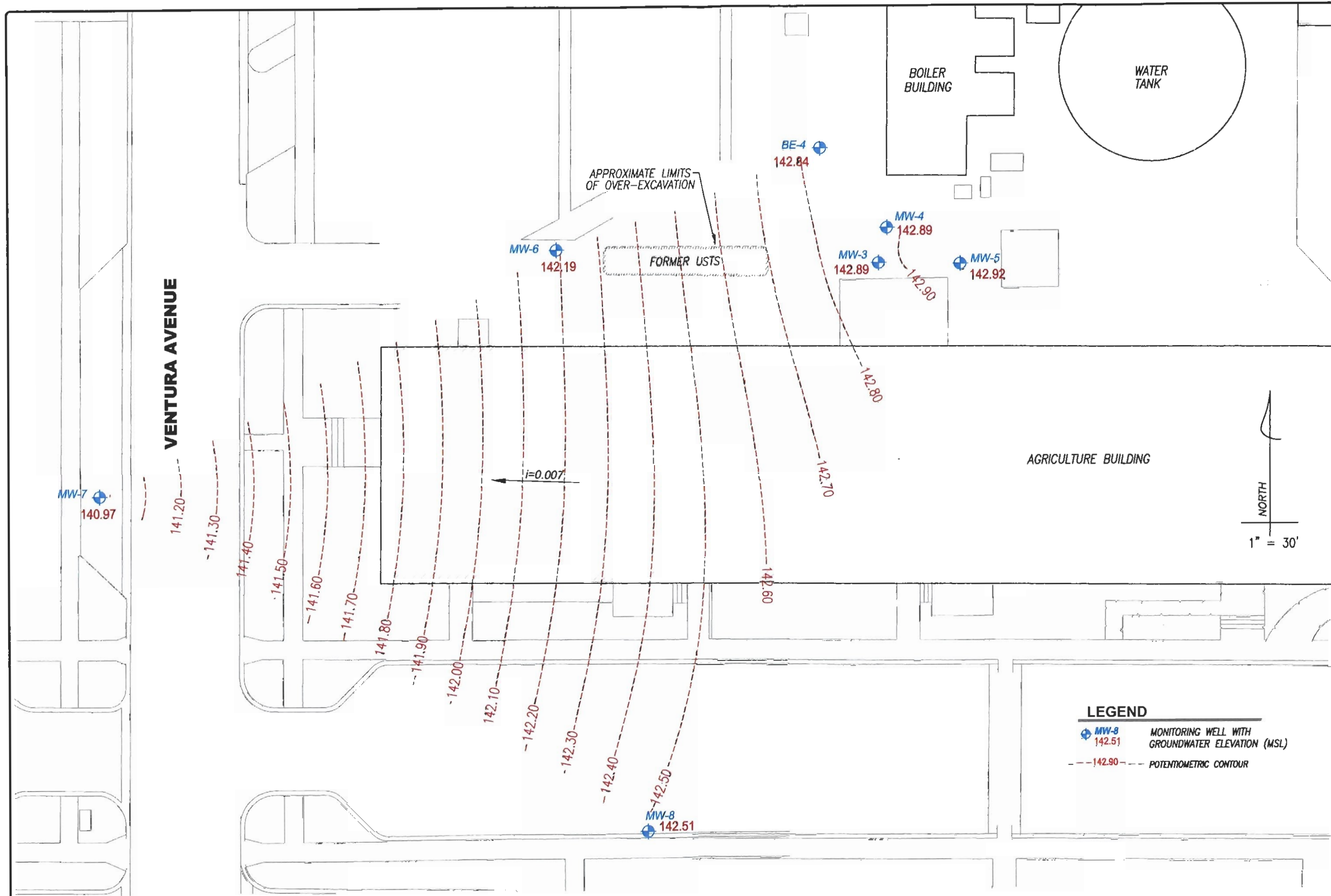


TABLE 1
MONITORING WELL SURVEY AND WATER LEVEL DATA
SONOMA COUNTY AGRICULTURE BUILDING
2604 Ventura Ave., Santa Rosa, California

Monitoring Well ID	Well Depth (feet)	Screened Interval (feet)	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Groundwater Elevation (MSL)	Date
BE-4	13.5	*	147.76	3.40	144.36	3/16/1999
				5.07	142.69	7/12/2000
				5.34	142.42	10/4/2000
				4.36	143.40	1/18/2001
				4.68	143.08	4/18/2001
				5.37	142.39	7/26/2001
				5.70	142.06	10/29/2001
				4.13	143.63	1/24/2002
				4.69	143.07	4/23/2002
				5.50	142.26	7/19/2002
				5.72	142.04	10/29/2002
				2.88	144.88	1/16/2003
				3.67	144.09	4/14/2003
				5.84	141.92	10/22/2003
				3.95	143.81	1/23/2004
				4.44	143.32	4/5/2004
				5.93	141.83	7/28/2004
				5.38	142.38	10/26/2004
				3.75	144.01	1/31/2005
				3.41	144.35	4/6/2005
				4.92	142.84	7/12/2005
MW-3	8.0	*	147.74	3.35	144.39	3/16/1999
				5.02	142.72	7/12/2000
				5.29	142.45	10/4/2000
				4.31	143.43	1/18/2001
				4.62	143.12	4/18/2001
				5.31	142.43	7/26/2001
				5.60	141.44	10/29/2001
				4.05	143.69	1/24/2002
				4.62	143.12	4/23/2002
				5.45	141.59	7/19/2002
				5.56	142.18	10/29/2002
				2.85	144.89	1/16/2003
				3.67	144.07	4/14/2003
				5.51	142.23	10/22/2003
				4.95	142.79	1/23/2004
			147.81**	4.39	143.35	4/5/2004
				5.94	141.87	7/28/2004
				5.33	142.48	10/26/2004
				3.73	144.08	1/31/2005
				3.36	144.45	4/6/2005
				4.92	142.89	7/12/2005

TABLE 1
MONITORING WELL SURVEY AND WATER LEVEL DATA
SONOMA COUNTY AGRICULTURE BUILDING
2604 Ventura Ave., Santa Rosa, California

Monitoring Well ID	Well Depth (feet)	Screened Interval (feet)	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Groundwater Elevation (MSL)	Date
MW-4	8.0	*	147.70	3.28	144.42	3/16/1999
				4.96	142.74	7/12/2000
				5.24	142.46	10/4/2000
				4.24	143.46	1/18/2001
				4.56	143.14	4/18/2001
				5.26	142.44	7/26/2001
				5.57	142.13	10/29/2001
				3.99	143.71	1/24/2002
				4.55	143.15	4/23/2002
				5.40	142.30	7/19/2002
				5.54	142.16	10/29/2002
				2.78	144.92	1/16/2003
				3.59	144.11	4/14/2003
				5.75	141.95	10/22/2003
				3.91	143.79	1/23/2004
			147.74**	4.33	143.37	4/5/2004
				5.93	141.81	7/28/2004
				5.24	142.50	10/26/2004
				3.65	144.09	1/31/2005
				3.30	144.44	4/6/2005
				4.85	142.89	7/12/2005
MW-5	8.5	*	147.53	3.02	144.51	3/16/1999
				4.73	142.80	7/12/2000
				4.99	142.54	10/4/2000
				4.01	143.52	1/18/2001
				4.34	143.19	4/18/2001
				5.02	142.51	7/26/2001
				5.31	142.22	10/29/2001
				3.73	143.80	1/24/2002
				4.32	143.21	4/23/2002
				5.15	142.38	7/19/2002
				5.27	142.26	10/29/2002
				2.54	144.99	1/16/2003
				3.38	144.15	4/14/2003
				5.51	142.02	10/22/2003
				4.71	142.82	1/23/2004
			147.55**	4.08	143.45	4/5/2004
				5.65	141.90	7/28/2004
				5.01	142.54	10/26/2004
				3.42	144.13	1/31/2005
				3.05	144.50	4/6/2005
				4.63	142.92	7/12/2005

TABLE 1
MONITORING WELL SURVEY AND WATER LEVEL DATA
SONOMA COUNTY AGRICULTURE BUILDING
2604 Ventura Ave., Santa Rosa, California

Monitoring Well ID	Well Depth (feet)	Screened Interval (feet)	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Groundwater Elevation (MSL)	Date
MW-6	15	5'-15'	147.72	5.67	142.05	7/12/2000
				5.91	141.81	10/4/2000
				5.08	142.64	1/18/2001
				5.33	142.39	4/18/2001
				5.97	141.75	7/26/2001
				6.08	141.64	10/29/2001
				4.82	142.90	1/24/2002
				5.33	142.39	4/23/2002
				6.00	141.72	7/19/2002
				6.17	141.55	10/29/2002
				3.47	144.25	1/16/2003
				4.38	143.34	4/14/2003
				6.36	141.36	10/22/2003
				4.64	143.08	1/23/2004
			147.77**	5.10	142.62	4/5/2004
				6.42	141.35	7/28/2004
				5.82	141.95	10/26/2004
				4.45	143.32	1/31/2005
				4.14	143.63	4/6/2005
				5.58	142.19	7/12/2005
MW-7	20	5'-20'	146.27	4.98	141.29	4/5/2004
				6.02	140.25	7/28/2004
				5.45	140.82	10/26/2004
				4.41	141.86	1/31/2005
				3.98	142.29	4/6/2005
				5.30	140.97	7/12/2005
MW-8	20	5'-20'	145.95	3.02	142.93	4/5/2004
				4.71	141.24	7/28/2004
				3.48	142.47	10/26/2004
				2.50	143.45	1/31/2005
				2.32	143.63	4/6/2005
				3.44	142.51	7/12/2005

TOC = Top of Casing.

* Construction data not available to EBA.

** All wells re-surveyed by EBA 4/19/04.

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPH-g, TPH-d, BTEX
Sonoma County Agriculture Building
2604 Ventura Ave., Santa Rosa, California

SAMPLE ID	DATE	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
BE-4	3/16/1999	<50	200	<0.30	<0.30	<0.50	<0.50
	7/12/2000	160	110	<0.30	<0.30	<0.50	<0.50
	10/4/2000	190	120	<0.30	<0.30	<0.50	<0.50
	1/18/2001	150	140	<0.30	<0.30	<0.50	<0.50
	4/18/2001	91	52	<0.30	0.74	<0.50	<0.50
	7/26/2001	250	110	<0.30	<0.30	<0.50	<0.50
	10/29/2001	250	150	<0.30	<0.30	<0.50	<0.50
	1/24/2002	<50	130	<0.30	<0.30	<0.50	<0.50
	4/23/2002	220	190	<0.30	<0.30	<0.50	<0.50
	7/19/2002	220	210	<0.30	<0.30	<0.50	<0.50
	10/29/2002	240	240	<0.30	<0.30	<0.50	<0.50
	1/16/2003	<50	82	<0.30	<0.30	<0.50	<0.50
	4/14/2003	94	130	<0.30	<0.30	<0.50	<0.50
	10/22/2003	190	74	<0.30	0.37	<0.50	<0.50
	1/23/2004	58	68	<0.30	<0.30	<0.50	<0.50
	4/5/2004	87	54	<0.30	<0.30	<0.50	<0.50
	7/28/2004	110	150	<0.30	<0.30	<0.50	<0.50
	10/26/2004	87	<50	<0.30	<0.30	<0.50	<0.50
	1/31/2005	<50	<50	<0.30	<0.30	<0.50	<0.50
	4/6/2005	<50	<50	<0.30	<0.30	<0.50	<0.50
	7/12/2005	<50	<50	<0.30	<0.30	<0.50	<0.50
MW-3	3/16/1999	<50	<50	<0.30	<0.30	<0.50	<0.50
	7/12/2000	<50	<50	<0.30	<0.30	<0.50	<0.50
	10/4/2000	<50	<50	<0.30	<0.30	<0.50	<0.50
	1/18/2001	<50	<50	<0.30	<0.30	<0.50	<0.50
	4/18/2001	<50	<50	<0.30	0.76	<0.50	<0.50
	7/26/2001	<50	<50	<0.30	<0.30	<0.50	<0.50
	10/29/2001	<50	<50	<0.30	<0.30	<0.50	<0.50
	1/24/2002	<50	<50	<0.30	<0.30	<0.50	<0.50
	4/23/2002	<50	<50	<0.30	<0.30	<0.50	<0.50
	7/19/2002	<50	<50	<0.30	<0.30	<0.50	<0.50
	10/29/2002	<50	<50	<0.30	<0.30	<0.50	<0.50
	1/16/2003	<50	<50	<0.30	<0.30	<0.50	<0.50
	4/14/2003	<50	<50	<0.30	<0.30	<0.50	<0.50
	10/22/2003	NS	NS	NS	NS	NS	NS
	1/23/2004	<50	<52	<0.30	<0.30	<0.50	<0.50
	4/5/2004	<50	<50	<0.30	<0.30	<0.50	<0.50
	7/28/2004	NS	NS	NS	NS	NS	NS
	10/26/2004	NS	NS	NS	NS	NS	NS
	1/31/2005	NS	NS	NS	NS	NS	NS
	4/6/2005	<50	<50	<0.30	<0.30	<0.50	<0.50
	7/12/2005	NS	NS	NS	NS	NS	NS

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPH-g, TPH-d, BTEX
Sonoma County Agriculture Building
2604 Ventura Ave., Santa Rosa, California

SAMPLE ID	DATE	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-4	3/16/1999	<50	<50	<0.30	<0.30	<0.50	<0.50
	7/12/2000	<50	<50	<0.30	<0.30	<0.50	<0.50
	10/4/2000	<50	<50	<0.30	<0.30	<0.50	<0.50
	1/18/2001	<50	<50	<0.30	<0.30	<0.50	<0.50
	4/18/2001	<50	<50	<0.30	1.2	<0.50	<0.50
	7/26/2001	<50	<50	<0.30	<0.30	<0.50	<0.50
	10/29/2001	<50	<50	<0.30	<0.30	<0.50	<0.50
	1/24/2002	<50	<50	<0.30	<0.30	<0.50	<0.50
	4/23/2002	<50	<50	<0.30	<0.30	<0.50	<0.50
	7/19/2002	<50	<50	<0.30	<0.30	<0.50	<0.50
	10/29/2002	<50	83	<0.30	<0.30	<0.50	<0.50
	1/16/2003	<50	<50	<0.30	<0.30	<0.50	<0.50
	4/14/2003	<50	<50	<0.30	<0.30	<0.50	<0.50
	10/22/2003	NS	NS	NS	NS	NS	NS
	1/23/2004	<50	<52	<0.30	<0.30	<0.50	<0.50
	4/5/2004	<50	<50	<0.30	<0.30	<0.50	<0.50
	7/28/2004	NS	NS	NS	NS	NS	NS
	10/26/2004	NS	NS	NS	NS	NS	NS
	1/31/2005	NS	NS	NS	NS	NS	NS
MW-5	3/16/1999	<50	<50	<0.30	<0.30	<0.50	<0.50
	7/12/2000	<50	55	<0.30	<0.30	<0.50	<0.50
	10/4/2000	<50	<50	<0.30	<0.30	<0.50	<0.50
	1/18/2001	<50	<50	<0.30	<0.30	<0.50	<0.50
	4/18/2001	<50	<50	<0.30	0.83	<0.50	<0.50
	7/26/2001	<50	<82	<0.30	<0.30	<0.50	<0.50
	10/29/2001	<50	<50	<0.30	<0.30	<0.50	<0.50
	1/24/2002	<50	<50	<0.30	<0.30	<0.50	<0.50
	4/23/2002	<50	<50	<0.30	<0.30	<0.50	<0.50
	7/19/2002	<50	<50	<0.30	<0.30	<0.50	<0.50
	10/28/2002	<50	56	<0.30	<0.30	<0.50	<0.50
	1/16/2003	<50	<50	<0.30	<0.30	<0.50	<0.50
	4/14/2003	<50	<50	<0.30	<0.30	<0.50	<0.50
	10/22/2003	NS	NS	NS	NS	NS	NS
	1/23/2004	<50	<56	<0.30	<0.30	<0.50	<0.50
	4/5/2004	<50	<50	<0.30	<0.30	<0.50	<0.50
	7/28/2004	NS	NS	NS	NS	NS	NS
	10/26/2004	NS	NS	NS	NS	NS	NS
	1/31/2005	NS	NS	NS	NS	NS	NS
	4/6/2005	<50	<50	<0.30	<0.30	<0.50	<0.50
	7/12/2005	NS	NS	NS	NS	NS	NS

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GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPH-g, TPH-d, BTEX
Sonoma County Agriculture Building
2604 Ventura Ave., Santa Rosa, California

SAMPLE ID	DATE	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-6	7/12/2000	8400	950	28	<0.30	170	820
	10/4/2000	7800	760	40	0.57	300	420
	1/18/2001	9700	3200	100	1.1	700	1800
	4/18/2001	18000	2100	98	<30	820	1800
	7/26/2001	6600	690	28	<3.0	320	310
	10/29/2001	4100	730	19	<3.0	170	260
	1/24/2002	4800	930	24	1.1	370	0.85
	4/23/2002	7300	1200	22	1.2	370	640
	7/19/2002	2400	580	8.3	<0.30	78	70
	10/29/2002	3300	460	8.4	<0.30	170	250
	1/16/2003	7300	930	17	0.99	300	540
	4/14/2003	12000	2200	<15	<15	440	740
	10/22/2003	3100	190	5.0	<1.5	43	35
	1/23/2004	3100	1300	4.7	<3.0	150	200
	4/5/2004	2400	7700	9.0	<0.30	380	<0.50
	7/28/2004	1600	1100	1.8	<1.5	16	11
	10/26/2004	8100	460	7.5	<3.0	290	430
MW-7	1/31/2005	8100	970	4.8	<3.0	250	210
	4/6/2005	5000	840	3.4	<1.5	180	140
	7/12/2005	5700	740	3.3	0.63	150	150
	4/5/2004	<50	<50	<0.30	<0.30	<0.50	<0.50
	7/28/2004	<50	<50	<0.30	<0.30	<0.50	<0.50
MW-8	10/26/2004	<50	<50	<0.30	<0.30	<0.50	<0.50
	1/31/2005	<50	<50	<0.30	<0.30	<0.50	<0.50
	4/6/2005	<50	<50	<0.30	<0.30	<0.50	<0.50
	7/12/2005	<50	<50	<0.30	<0.30	<0.50	<0.50
	4/5/2004	<50	<50	<0.30	<0.30	<0.50	<0.50

µg/L = Micrograms per Liter.

TPH-g = Total Petroleum Hydrocarbons as gasoline.

TPH-d = Total Petroleum Hydrocarbons as diesel.

NS= Not Sampled.

TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
Fuel Oxygenates
Sonoma County Agriculture Building
2604 Ventura Ave., Santa Rosa, California

SAMPLE ID	DATE	Methyl tert-butyl ether (µg/L)	Di-isopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-butyl alcohol (µg/L)
BE-4	3/16/1999	<0.50	<0.50	<0.50	<0.50	<10
	7/12/2000	<0.50	<0.50	<0.50	<0.50	<10
	10/4/2000	<0.50	<0.50	<0.50	<0.50	<5.0
	1/18/2001	<0.50	<0.50	<0.50	<0.50	<5.0
	4/18/2001	<0.50	<0.50	<0.50	<0.50	<5.0
	7/26/2001	<0.50	<0.50	<0.50	<0.50	<10
	10/29/2001	<0.50	<0.50	<0.50	<0.50	<10
	1/24/2002	<0.50	<0.50	<0.50	<0.50	<10
	4/23/2002	<0.50	<0.50	<0.50	<0.50	<10
	7/19/2002	<0.50	<0.50	<0.50	<0.50	<10
	10/29/2002	<0.50	<0.50	<0.50	<0.50	<10
	1/16/2003	<0.50	<0.50	<0.50	<0.50	<10
	4/14/2003	<0.50	<0.50	<0.50	<0.50	<10
	10/22/2003	<0.50	<0.50	<0.50	<0.50	<10
	1/23/2004	<0.50	<0.50	<0.50	<0.50	<10
	4/5/2004	<0.50	<0.50	<0.50	<0.50	<10
	7/28/2004	<0.50	<0.50	<0.50	<0.50	<10
	10/26/2004	<0.50	<0.50	<0.50	<0.50	<10
	1/31/2005	<0.50	<0.50	<0.50	<0.50	<10
	4/6/2005	<0.50	<0.50	<0.50	<0.50	<10
	7/12/2005	<0.50	<0.50	<0.50	<0.50	<10
MW-3	3/16/1999	<0.50	<0.50	<0.50	<0.50	<10
	7/12/2000	<0.50	<0.50	<0.50	<0.50	<10
	10/4/2000	<0.50	<0.50	<0.50	<0.50	<5.0
	1/18/2001	<0.50	<0.50	<0.50	<0.50	<10
	4/18/2001	<0.50	<0.50	<0.50	<0.50	<10
	7/26/2001	<0.50	<0.50	<0.50	<0.50	<10
	10/29/2001	<0.50	<0.50	<0.50	<0.50	<10
	1/24/2002	<0.50	<0.50	<0.50	<0.50	<10
	4/23/2002	<0.50	<0.50	<0.50	<0.50	<10
	7/19/2002	<0.50	<0.50	<0.50	<0.50	<10
	10/29/2002	<0.50	<0.50	<0.50	<0.50	<10
	1/16/2003	<0.50	<0.50	<0.50	<0.50	<10
	4/14/2003	<0.50	<0.50	<0.50	<0.50	<10
	10/22/2003	NS	NS	NS	NS	NS
	1/23/2004	<0.50	<0.50	<0.50	<0.50	<10
	4/5/2004	<0.50	<0.50	<0.50	<0.50	<10
	7/28/2004	NS	NS	NS	NS	NS
	10/26/2004	NS	NS	NS	NS	NS
	1/31/2005	NS	NS	NS	NS	NS
	4/6/2005	<0.50	<0.50	<0.50	<0.50	<10
	7/12/2005	NS	NS	NS	NS	NS

TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
Fuel Oxygenates
Sonoma County Agriculture Building
2604 Ventura Ave., Santa Rosa, California

SAMPLE ID	DATE	Methyl tert-butyl ether (µg/L)	Di-isopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-butyl alcohol (µg/L)
MW-4	3/16/1999	<0.50	<0.50	<0.50	<0.50	<10
	7/12/2000	<0.50	<0.50	<0.50	<0.50	<10
	10/4/2000	<0.50	<0.50	<0.50	<0.50	<5.0
	1/18/2001	<0.50	<0.50	<0.50	<0.50	<10
	4/18/2001	<0.50	<0.50	<0.50	<0.50	<10
	7/26/2001	<0.50	<0.50	<0.50	<0.50	<10
	10/29/2001	<0.50	<0.50	<0.50	<0.50	<10
	1/24/2002	<0.50	<0.50	<0.50	<0.50	<10
	4/23/2002	<0.50	<0.50	<0.50	<0.50	<10
	7/19/2002	<0.50	<0.50	<0.50	<0.50	<10
	10/29/2002	<0.50	<0.50	<0.50	<0.50	<10
	1/16/2003	<0.50	<0.50	<0.50	<0.50	<10
	4/14/2003	<0.50	<0.50	<0.50	<0.50	<10
	10/22/2003	NS	NS	NS	NS	NS
	1/23/2004	<0.50	<0.50	<0.50	<0.50	<10
	4/5/2004	<0.50	<0.50	<0.50	<0.50	<10
	7/28/2004	NS	NS	NS	NS	NS
	10/26/2004	NS	NS	NS	NS	NS
	1/31/2005	NS	NS	NS	NS	NS
MW-5	4/6/2005	<0.50	<0.50	<0.50	<0.50	<10
	7/12/2005	NS	NS	NS	NS	NS
	3/16/1999	<0.50	<0.50	<0.50	<0.50	<10
	7/12/2000	<0.50	<0.50	<0.50	<0.50	<10
	10/4/2000	<0.50	<0.50	<0.50	<0.50	<5.0
	1/18/2001	<0.50	<0.50	<0.50	<0.50	<10
	4/18/2001	<0.50	<0.50	<0.50	<0.50	<10
	7/26/2001	<0.50	<0.50	<0.50	<0.50	<10
	10/29/2001	<0.50	<0.50	<0.50	<0.50	<10
	1/24/2002	<0.50	<0.50	<0.50	<0.50	<10
	4/23/2002	<0.50	<0.50	<0.50	<0.50	<10
	7/19/2002	<0.50	<0.50	<0.50	<0.50	<10
	10/29/2002	<0.50	<0.50	<0.50	<0.50	<10
	1/16/2003	<0.50	<0.50	<0.50	<0.50	<10
	4/14/2003	<0.50	<0.50	<0.50	<0.50	<10
	10/22/2003	NS	NS	NS	NS	NS
	1/23/2004	<0.50	<0.50	<0.50	<0.50	<10
	4/5/2004	<0.50	<0.50	<0.50	<0.50	<10
	7/28/2004	NS	NS	NS	NS	NS
	10/26/2004	NS	NS	NS	NS	NS
	1/31/2005	NS	NS	NS	NS	NS
	4/6/2005	<0.50	<0.50	<0.50	<0.50	<10
	7/12/2005	NS	NS	NS	NS	NS

TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
Fuel Oxygenates
Sonoma County Agriculture Building
2604 Ventura Ave., Santa Rosa, California

SAMPLE ID	DATE	Methyl tert-butyl ether (µg/L)	Di-isopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-butyl alcohol (µg/L)
MW-6	7/12/2000	40	<0.50	<0.50	<0.50	<10
	10/4/2000	33	<0.50	<0.50	<0.50	110
	1/18/2001	99	<0.50	<0.50	<0.50	<10
	4/18/2001	<0.50	<0.50	<0.50	<0.50	<1000
	7/26/2001	43	<5.0	<5.0	<5.0	<100
	10/29/2001	35	<5.0	<5.0	<5.0	<100
	1/24/2002	27	<0.50	<0.50	<0.50	<10
	4/23/2002	18	<0.50	<0.50	<0.50	<10
	7/19/2002	27	<0.50	<0.50	<0.50	10
	10/29/2002	16	<0.50	<0.50	<0.50	<10
	1/16/2003	15	<0.50	<0.50	<0.50	<10
	4/14/2003	<25	<25	<25	<25	<500
	10/22/2003	11	<2.5	<2.5	<2.5	<50
	1/23/2004	19	<5.0	<5.0	<5.0	<50
	4/5/2004	<0.50	<0.50	<0.50	<0.50	<10
	7/28/2004	10	<2.5	<2.5	<2.5	<50
	10/26/2004	7.6	<5.0	<5.0	<5.0	<100
	1/31/2005	<5.0	<5.0	<5.0	<5.0	<100
MW-7	4/6/2005	3.8	<2.5	<2.5	<2.5	<50
	7/12/2005	2.5	<0.50	<0.50	<0.50	<10
	4/5/2004	5.6	<0.50	<0.50	<0.50	<10
	7/28/2004	24	<0.50	<0.50	<0.50	<10
	10/26/2004	25	<0.50	<0.50	<0.50	<10
	1/31/2005	13	<0.50	<0.50	<0.50	<10
MW-8	4/6/2005	4.3	<0.50	<0.50	<0.50	<10
	7/12/2005	4.8	<0.50	<0.50	<0.50	<10
	4/5/2004	<0.50	<0.50	<0.50	<0.50	<10
	7/28/2004	<0.50	<0.50	<0.50	<0.50	<10
	10/26/2004	<0.50	<0.50	<0.50	<0.50	<10
	1/31/2005	<0.50	<0.50	<0.50	<0.50	<10
MW-8	4/6/2005	<0.50	<0.50	<0.50	<0.50	<10
	7/12/2005	<0.50	<0.50	<0.50	<0.50	<10

µg/L = Micrograms per Liter.

TABLE 4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
Dissolved Lead, Lead Scavengers & Dissolved/Total Lead
Sonoma County Agriculture Building
2604 Ventura Ave., Santa Rosa, California

SAMPLE ID	DATE	1,2-Dichloroethane (µg/L)	Chloro-benzene (µg/L)	1,3-Dichloro benzene (µg/L)	1,4-Dichloro benzene (µg/L)	1,2-Dichloro benzene (µg/L)	1,2-Dibromoethane (µg/L)	Dissolved Lead (mg/L)	Total Lead (mg/L)
BE-4	3/16/1999	NA	NA	NA	NA	NA	NA	NA	NA
	7/12/2000	<0.50	<0.50	1.2	3.6	2.6	<0.50	NA	<0.010
	10/4/2000	<0.50	<0.50	1.3	3.2	3.2	<0.50	NA	NA
	1/18/2001	<0.50	<0.50	0.87	1.9	2.9	<0.50	<0.050	NA
	4/18/2001	<0.50	<0.50	<0.50	0.99	1.9	<0.50	NA	<0.050
	7/26/2001	<0.50	0.6	0.78	2.4	5.0	<0.50	<0.050	NA
	10/29/2001	<0.50	0.83	1.4	2.9	6.5	<0.50	<0.050	NA
	1/24/2002	<0.50	<0.50	<0.50	0.54	1.5	<0.50	<0.050	NA
	4/23/2002	<0.50	0.88	1.0	2.8	7.8	<0.50	<0.050	NA
	7/19/2002	<0.50	0.85	1.6	2.6	7.3	<0.50	<0.050	NA
	10/29/2002	<0.50	0.89	1.4	2.4	8.2	<0.50	<0.050	NA
	1/16/2003	<0.50	<0.50	<0.50	<0.50	1.2	<0.50	<0.010	NA
	4/14/2003	<0.50	<0.50	0.73	0.82	3.7	<0.50	<0.010	NA
	10/22/2003	<0.50	<0.50	0.86	0.96	5.8	<0.50	NA	<0.010
	1/23/2004	<0.50	<0.50	0.65	<0.50	3.0	<0.50	NA	0.031
	4/5/2004	<0.50	<0.50	0.96	0.61	5.0	<0.50	<0.010	NA
	7/28/2004	<0.50	<0.50	0.91	0.73	7.0	<0.50	NA	NA
	10/26/2004	<0.50	<0.50	<0.50	<0.50	2.9	<0.50	NA	NA
	1/31/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
	4/6/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
	7/12/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
MW-3	3/16/1999	NA	NA	NA	NA	NA	NA	NA	NA
	7/12/2000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	0.036
	10/4/2000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
	1/18/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	4/18/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.050
	7/26/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	10/29/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	1/24/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	4/23/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	7/19/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	10/29/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	1/16/2003	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.010	NA
	4/14/2003	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.010	NA
	10/22/2003	NS	NS	NS	NS	NS	NS	NS	NS
	1/23/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	0.069
	4/5/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.010	NA
	7/28/2004	NS	NS	NS	NS	NS	NS	NS	NS
	10/26/2004	NS	NS	NS	NS	NS	NS	NS	NS
	1/31/2005	NS	NS	NS	NS	NS	NS	NS	NS
	4/6/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
	7/12/2005	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
Dissolved Lead, Lead Scavengers & Dissolved/Total Lead
Sonoma County Agriculture Building
2604 Ventura Ave., Santa Rosa, California

SAMPLE ID	DATE	1,2-Dichloroethane (µg/L)	Chloro-benzene (µg/L)	1,3-Dichloro benzene (µg/L)	1,4-Dichloro benzene (µg/L)	1,2-Dichloro benzene (µg/L)	1,2-Dibromoethane (µg/L)	Dissolved Lead (mg/L)	Total Lead (mg/L)
MW-4	3/16/1999	NA	NA	NA	NA	NA	NA	NA	NA
	7/12/2000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	0.069
	10/4/2000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
	1/18/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	4/18/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.050
	7/26/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	10/29/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	1/24/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	4/23/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	7/19/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	10/29/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	1/16/2003	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.010	NA
	4/14/2003	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.010	NA
	10/22/2003	NS	NS	NS	NS	NS	NS	NS	NS
	1/23/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	0.051
	4/5/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.010	NA
	7/28/2004	NS	NS	NS	NS	NS	NS	NS	NS
	10/26/2004	NS	NS	NS	NS	NS	NS	NS	NS
	1/31/2005	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	4/6/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
	7/12/2005	NS	NS	NS	NS	NS	NS	NS	NS
	3/16/1999	NA	NA	NA	NA	NA	NA	NA	NA
	7/12/2000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.010
	10/4/2000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
	1/18/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	4/18/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.050
	7/26/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	10/29/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	1/24/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	4/23/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	7/19/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	10/29/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	1/16/2003	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.010	NA
	4/14/2003	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.010	NA
	10/22/2003	NS	NS	NS	NS	NS	NS	NS	NS
	1/23/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	0.012
	4/5/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.010	NA
	7/28/2004	NS	NS	NS	NS	NS	NS	NS	NS
	10/26/2004	NS	NS	NS	NS	NS	NS	NS	NS
	1/31/2005	NS	NS	NS	NS	NS	NS	NS	NS
	4/6/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
	7/12/2005	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
Dissolved Lead, Lead Scavengers & Dissolved/Total Lead
Sonoma County Agriculture Building
2604 Ventura Ave., Santa Rosa, California

SAMPLE ID	DATE	1,2-Dichloroethane (µg/L)	Chlorobenzene (µg/L)	1,3-Dichlorobenzene (µg/L)	1,4-Dichlorobenzene (µg/L)	1,2-Dichlorobenzene (µg/L)	1,2-Dibromoethane (µg/L)	Dissolved Lead (mg/L)	Total Lead (mg/L)
MW-6	7/12/2000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.010
	10/4/2000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
	1/18/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	4/18/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.050
	7/26/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	10/29/2001	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	1/24/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	4/23/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	7/19/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	10/29/2002	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	NA
	1/16/2003	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.010	NA
	4/14/2003	<25	<25	<25	<25	<25	<25	<0.010	NA
	10/22/2003	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	NA	<0.010
	1/23/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	0.051
	4/5/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.010	NA
	7/28/2004	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	NA	NA
	10/26/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA
MW-7	1/31/2005	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA
	4/6/2005	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	NA	NA
	7/12/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
	4/5/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.010	NA
	7/28/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
MW-8	10/26/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
	1/31/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
	4/6/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
	7/12/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
	4/5/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.010	NA

µg/L = Micrograms per Liter.

mg/L = Milligrams per Liter.

NS = Not Sampled.

NA = Not Analyzed.

Project No. 00-750-4		Well No: BE-4			
Project Location: 2604 Ventura Ave., Santa Rosa, CA		Well Depth from TOC: 13.5'			
Global I.D. # T0609700769		Well Diameter: 2"			
Date: 4/6/2005		Product Level from TOC: None			
Time: 1356		Water Level from TOC: 3.41'			
Recorded by: M. Wilmarth		Screened Interval:			
Purge Time (duration): 7 mins.		Well Elevation (TOC): 147.76' above MSL			
WEATHER					
Wind: 0-5 mph		Precip. in last 5 days: 0.48" (STA)			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING					
$(13.5' - 3.41') \times (0.08333)^2 \times 3.14 \times 7.48 = 1.64$ gallons in one well volume { Well Depth - Water Level } { Well radius (ft) }					
4.93 gallons in 3 well volumes		5 gallons removed			
CALIBRATION					
Parameter	Time	Calibration	Before Sampling	Time	After Sampling
pH:					
EC:					
FIELD MEASUREMENTS					
Time	pH	EC (μS/cm)	Temp °C	Gallons Removed	Appearance
1356	7.31	472	20.6	0.5	Clear
1401	6.90	448	20.5	3	Cloudy-silty
1403	6.90	448	20.5	5	Cloudy-silty
Water Level After Purging: 6.00 ft. (TOC)			80% of Original Water Level: 5.47 ft. (TOC)		
Water Level Before Sampling: 5.30 ft. (TOC)					
APPEARANCE OF SAMPLE: Cloudy				Time: 1405	
Bailer: Aqua Bailer Single Sample		Type: Disposable Polyethylene		GPM:	
Submersible:		Type:		GPM:	
Dedicated:		Type:		GPM:	
DECONTAMINATION METHOD: TSP wash and disposable bailers					
SAMPLE ANALYSIS: TPH-g, TPH-d, BTEX, Fuel Oxygenates, Lead Scavengers					
LABORATORY: Alpha Analytical					

Project No. 00-750-4		Well No: MW-3			
Project Location: 2604 Ventura Ave., Santa Rosa, CA		Well Depth from TOC: 8.0'			
Global I.D. # T0609700769		Well Diameter: 4"			
Date: 4/6/2005		Product Level from TOC: None			
Time: 1229		Water Level from TOC: 3.36'			
Recorded by: M. Wilmarth		Screened Interval:			
Purge Time (duration): 14 mins		Well Elevation (TOC): 147.81' above MSL			
WEATHER					
Wind: 0-5 mph		Precip. in last 5 days: 0.48" (STA)			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING					
$(\ 8.0' - \ 3.36' \) \times (\ 0.1666 \)^2 \times 3.14 \times 7.48 = \ 4.65 \ \text{gallons in one well volume}$					
{ Well Depth - Water Level }		{ Well radius (ft) }			
<u>13.94</u> gallons in 3 well volumes		<u>14</u> gallons removed			
CALIBRATION					
Parameter	Time	Calibration	Before Sampling	Time	After Sampling
pH:					
EC:					
FIELD MEASUREMENTS					
Time	pH	EC (µS/cm)	Temp °C	Gallons Removed	Appearance
1229	7.13	412	19.8	0.5	Clear
1233	6.93	378	19.6	3	Clear
1235	6.90	412	19.5	6	Clear
1239	6.91	409	19.5	9	Clear
1243	6.89	412	19.6	12	Clear
Water Level After Purging: <u>4.05</u> ft. (TOC)			80% of Original Water Level: <u>4.29</u> ft. (TOC)		
Water Level Before Sampling: <u>4.05</u> ft. (TOC)					
APPEARANCE OF SAMPLE: Cloudy				Time: 1245	
Bailer: Aqua Bailer Single Sample		Type: Disposable Polyethylene		GPM:	
Submersible:		Type:		GPM:	
Dedicated:		Type:		GPM:	
DECONTAMINATION METHOD: TSP wash and disposable bailers					
SAMPLE ANALYSIS: TPH-g, TPH-d, BTEX, Fuel Oxygenates, Lead Scavengers					
LABORATORY: Alpha Analytical					

Project No. 00-750-4		Well No: MW-4			
Project Location: 2604 Ventura Ave., Santa Rosa, CA		Well Depth from TOC: 8.0'			
Global I.D. # T0609700769		Well Diameter: 4"			
Date: 4/6/2005		Product Level from TOC: None			
Time: 1153		Water Level from TOC: 3.30'			
Recorded by: M. Wilmarth		Screened Interval:			
Purge Time (duration): 9 mins.		Well Elevation (TOC): 147.74' above MSL			
WEATHER					
Wind: 0-5 mph		Precip. in last 5 days: 0.48" (STA)			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING					
$(8.0' - 3.30') \times (0.1666)^2 \times 3.14 \times 7.48 = 3.06 \text{ gallons in one well volume}$					
{ Well Depth - Water Level }		{ Well radius (ft) }			
9.19 gallons in 3 well volumes		10 gallons removed			
CALIBRATION					
Parameter	Time	Calibration	Before Sampling	Time	After Sampling
pH:					
EC:					
FIELD MEASUREMENTS					
Time	pH	EC (µS/cm)	Temp °C	Gallons Removed	Appearance
1153	7.73	302	18.8	1.5	Clear
1155	7.21	296	18.8	3	Clear
1158	7.11	297	18.8	6	Clear
1202	7.11	297	18.8	10	Clear
Water Level After Purging: 4.20 ft. (TOC)			80% of Original Water Level: 4.24 ft. (TOC)		
Water Level Before Sampling: 4.20 ft. (TOC)					
APPEARANCE OF SAMPLE: Clear				Time: 1210	
Bailer: Aqua Bailer Single Sample		Type: Disposable Polyethylene		GPM:	
Submersible:		Type:		GPM:	
Dedicated:		Type:		GPM:	
DECONTAMINATION METHOD: TSP wash and disposable bailers					
SAMPLE ANALYSIS: TPH-g, TPH-d, BTEX, Fuel Oxygenates, Lead Scavengers					
LABORATORY: Alpha Analytical					

Project No. 00-750-4		Well No: MW-5			
Project Location: 2604 Ventura Ave., Santa Rosa, CA		Well Depth from TOC: 8.5'			
Global I.D. # T0609700769		Well Diameter: 4"			
Date: 4/6/2005		Product Level from TOC: None			
Time: 1306		Water Level from TOC: 3.05'			
Recorded by: M. Wilmarth		Screened Interval:			
Purge Time (duration): 23 mins.		Well Elevation (TOC): 147.55' above MSL			
WEATHER					
Wind: 0-5 mph		Precip. in last 5 days: 0.48" (STA)			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING					
$(8.5' - 3.05') \times (0.1666)^2 \times 3.14 \times 7.48 = 3.55$ gallons in one well volume					
{ Well Depth - Water Level }		{ Well radius (ft) }			
10.67 gallons in 3 well volumes		11 gallons removed			
CALIBRATION					
Parameter	Time	Calibration	Before Sampling	Time	After Sampling
pH:					
EC:					
FIELD MEASUREMENTS					
Time	pH	EC (µS/cm)	Temp °C	Gallons Removed	Appearance
1306	7.16	403	19.8	1	Clear
1318	6.75	408	20.0	3	Cloudy
1322	6.76	406	19.2	6	Cloudy
1326	6.77	408	19.1	9	Cloudy
1329	6.78	407	19.1	12	Cloudy
Water Level After Purging: 4.00 ft. (TOC)			80% of Original Water Level: 4.14 ft. (TOC)		
Water Level Before Sampling: 4.00 ft. (TOC)					
APPEARANCE OF SAMPLE: Cloudy				Time: 1335	
Bailer: Aqua Bailer Single Sample		Type: Disposable Polyethylene		GPM:	
Submersible:		Type:		GPM:	
Dedicated:		Type:		GPM:	
DECONTAMINATION METHOD: TSP wash and disposable bailers					
SAMPLE ANALYSIS: TPH-g, TPH-d, BTEX, Fuel Oxygenates, Lead Scavengers					
LABORATORY: Alpha Analytical					

Project No. 00-750-4		Well No: MW-6			
Project Location: 2604 Ventura Ave., Santa Rosa, CA		Well Depth from TOC: 15.0'			
Global I.D. # T0609700769		Well Diameter: 2"			
Date: 4/6/2005		Product Level from TOC: None			
Time: 1115		Water Level from TOC: 4.14'			
Recorded by: M. Wilmarth		Screened Interval: 5.0' -15.0'			
Purge Time (duration): 7 mins.		Well Elevation (TOC): 147.77' above MSL			
WEATHER					
Wind: 0-5 mph		Precip. in last 5 days: 0.48" (STA)			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING					
$\{ 15.0' - 4.14' \} \times (0.08333)^2 \times 3.14 \times 7.48 = 1.77 \text{ gallons in one well volume}$					
{ Well Depth - Water Level }		{ Well radius (ft) }			
5.31 gallons in 3 well volumes		6 gallons removed			
CALIBRATION					
Parameter	Time	Calibration	Before Sampling	Time	After Sampling
pH:					
EC:					
FIELD MEASUREMENTS					
Time	pH	EC (µS/cm)	Temp °C	Gallons Removed	Appearance
1115	6.84	496	19.0	0.5	Clear-sandy grey
1118	6.67	496	18.8	3	Clear-sandy grey, HC odor
1122	6.69	502	19.0	6	Clear-sandy grey, HC odor
Water Level After Purging: 8.10 ft. (TOC)			80% of Original Water Level: 6.31 ft. (TOC)		
Water Level Before Sampling: 6.26 ft. (TOC)					
APPEARANCE OF SAMPLE: Clear				Time: 1130	
Bailer: Aqua Bailer Single Sample		Type: Disposable Polyethylene		GPM:	
Submersible:		Type:		GPM:	
Dedicated:		Type:		GPM:	
DECONTAMINATION METHOD: TSP wash and disposable bailers					
SAMPLE ANALYSIS: TPH-g, TPH-d, BTEX, Fuel Oxygenates, Lead Scavengers					
LABORATORY: Alpha Analytical					

Project No. 00-750-4		Well No: MW-7			
Project Location: 2604 Ventura Ave., Santa Rosa, CA		Well Depth from TOC: 20.0'			
Global I.D. # T0609700769		Well Diameter: 2"			
Date: 4/6/2005		Product Level from TOC: None			
Time: 1546		Water Level from TOC: 3.98'			
Recorded by: M. Wilmarth		Screened Interval: 5.0' -20.0'			
Purge Time (duration): 10 mins.		Well Elevation (TOC): 146.27' above MSL			
WEATHER					
Wind: 0-5 mph		Precip. in last 5 days: 0.48" (STA)			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING					
$(20.0' - 3.98') \times (0.08333)^2 \times 3.14 \times 7.48 = 2.61$ gallons in one well volume					
{ Well Depth - Water Level } { Well radius (ft) }					
7.83 gallons in 3 well volumes		8 gallons removed			
CALIBRATION					
Parameter	Time	Calibration	Before Sampling	Time	After Sampling
pH:					
EC:					
FIELD MEASUREMENTS					
Time	pH	EC (µS/cm)	Temp °C	Gallons Removed	Appearance
1546	7.34	526	17.8	1	Clear
1548	7.07	532	17.6	3	Clear
1552	7.00	501	18.1	6	Clear
1556	7.00	501	18.1	8	Clear
Water Level After Purging: 4.65 ft. (TOC)			80% of Original Water Level: 7.18 ft. (TOC)		
Water Level Before Sampling: 4.65 ft. (TOC)					
APPEARANCE OF SAMPLE: Clear				Time: 1600	
Bailer: Aqua Bailer Single Sample		Type: Disposable Polyethylene		GPM:	
Submersible:		Type:		GPM:	
Dedicated:		Type:		GPM:	
DECONTAMINATION METHOD: TSP wash and disposable bailers					
SAMPLE ANALYSIS: TPH-g, TPH-d, BTEX, Fuel Oxygenates, Lead Scavengers					
LABORATORY: Alpha Analytical					

Project No. 00-750-4		Well No: MW-8			
Project Location: 2604 Ventura Ave., Santa Rosa, CA		Well Depth from TOC: 20.0'			
Global I.D. # T0609700769		Well Diameter: 2"			
Date: 4/6/2005		Product Level from TOC: None			
Time: 1447		Water Level from TOC: 2.32'			
Recorded by: M. Wilunarth		Screened Interval: 5.0' -20.0'			
Purge Time (duration): 22 mins.		Well Elevation (TOC): 145.95' above MSL			
WEATHER					
Wind: 0-5 mph		Precip. in last 5 days: 0.48" (STA)			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING					
$(\text{20.0' - 2.32'}) \times (0.08333)^2 \times 3.14 \times 7.48 = \underline{2.88} \text{ gallons in one well volume}$					
{ Well Depth - Water Level }		{ Well radius (ft) }			
<u>8.65</u> gallons in 3 well volumes		<u>9</u> gallons removed			
CALIBRATION					
Parameter	Time	Calibration	Before Sampling	Time	After Sampling
pH:					
EC:					
FIELD MEASUREMENTS					
Time	pH	EC (µS/cm)	Temp °C	Gallons Removed	Appearance
1447	7.02	442	19.0	0.5	Clear
1451	6.66	438	18.1	3	Cloudy
1456	6.58	436	18.0	6	Cloudy
1459	6.58	436	18.0	9	Cloudy
Water Level After Purging: <u>9.90</u> ft. (TOC)				80% of Original Water Level: <u>5.86</u> ft. (TOC)	
Water Level Before Sampling: <u>5.80</u> ft. (TOC)					
APPEARANCE OF SAMPLE: Cloudy				Time: 1510	
Bailer: Aqua Bailer Single Sample		Type: Disposable Polyethylene		GPM:	
Submersible:		Type:		GPM:	
Dedicated:		Type:		GPM:	
DECONTAMINATION METHOD: TSP wash and disposable bailers					
SAMPLE ANALYSIS: TPH-g, TPH-d, BTEX, Fuel Oxygenates, Lead Scavengers					
LABORATORY: Alpha Analytical					

Project No. 00-750-4		Well No: BE-4			
Project Location: 2604 Ventura Ave., Santa Rosa, CA		Well Depth from TOC: 13.5'			
Global I.D. # T0609700769		Well Diameter: 2"			
Date: 7/12/2005		Product Level from TOC: None			
Time: 1109		Water Level from TOC: 4.92'			
Recorded by: M. Wilmarth		Screened Interval:			
Purge Time (duration): 8 mins.		Well Elevation (TOC): 147.76' above MSL			
WEATHER					
Wind: 0-5 mph		Precip. in last 5 days: 0.00" (STA)			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING					
$(13.5' - 4.92') \times (0.08333)^2 \times 3.14 \times 7.48 = 1.40 \text{ gallons in one well volume}$					
{ Well Depth - Water Level }		{ Well radius (ft) }			
4.20 gallons in 3 well volumes		4.5 gallons removed			
CALIBRATION					
Parameter	Time	Calibration	Before Sampling	Time	After Sampling
pH:					
EC:					
FIELD MEASUREMENTS					
Time	pH	EC (µS/cm)	Temp °C	Gallons Removed	Appearance
1109	7.05	328	24.8	0.5	Clear
1113	7.00	343	24.0	3	Brown silty
1117	7.03	327	23.5	4.5	Brown silty
Water Level After Purging: 7.60 ft. (TOC)			80% of Original Water Level: 6.64 ft. (TOC)		
Water Level Before Sampling: 5.33 ft. (TOC)					
APPEARANCE OF SAMPLE: Slightly cloudy				Time: 1125	
Bailer: Aqua Bailer Single Sample		Type: Disposable Polyethylene		GPM:	
Submersible:		Type:		GPM:	
Dedicated:		Type:		GPM:	
DECONTAMINATION METHOD: TSP wash and disposable bailers					
SAMPLE ANALYSIS: TPH-g, TPH-d, BTEX, 5 Fuel Oxygenates, Lead Scavengers					
LABORATORY: Alpha Analytical					

Project No. 00-750-4		Well No: MW-3			
Project Location: 2604 Ventura Ave., Santa Rosa, CA		Well Depth from TOC: 8.0'			
Global I.D. # T0609700769		Well Diameter: 4"			
Date: 7/12/2005		Product Level from TOC: None			
Time:		Water Level from TOC: 4.92'			
Recorded by: M. Wilmarth		Screened Interval:			
Purge Time (duration):		Well Elevation (TOC): 147.81' above MSL			
WEATHER					
Wind: 0-5 mph		Precip. in last 5 days: 0.00" (STA)			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING					
$\left(8.0' - \underline{\hspace{1cm}} \right) \times (0.1666')^2 \times 3.14 \times 7.48 - \underline{\hspace{1cm}} \text{ gallons in one well volume}$					
{ Well Depth - Water Level }		{ Well radius (ft) }			
<u> </u> gallons in 3 well volumes		<u> </u> gallons removed			
CALIBRATION					
Parameter	Time	Calibration	Before Sampling	Time	After Sampling
pH:					
EC:					
FIELD MEASUREMENTS					
Time	pH	EC (µS/cm)	Temp °C	Gallons Removed	Appearance
Water Level After Purging: <u> </u> ft. (TOC)		80% of Original Water Level: <u> </u> ft. (TOC)			
Water Level Before Sampling: <u> </u> ft. (TOC)					
APPEARANCE OF SAMPLE:				Time:	
Bailer: Aqua Bailer Single Sample		Type: Disposable Polyethylene		GPM:	
Submersible:		Type:		GPM:	
Dedicated:		Type:		GPM:	
DECONTAMINATION METHOD: TSP wash and disposable bailers					
SAMPLE ANALYSIS: TPH-g, TPH-d, BTEX, 5 Fuel Oxygenates, Lead Scavengers					
LABORATORY: Alpha Analytical					

Project No. 00-750-4		Well No: MW-4			
Project Location: 2604 Ventura Ave., Santa Rosa, CA		Well Depth from TOC: 8.0'			
Global I.D. # T0609700769		Well Diameter: 4"			
Date: 7/12/2005		Product Level from TOC: None			
Time:		Water Level from TOC: 4.85'			
Recorded by: M. Wilmarth		Screened Interval:			
Purge Time (duration):		Well Elevation (TOC): 147.74' above MSL			
WEATHER					
Wind: 0-5 mph		Precip. in last 5 days: 0.00" (STA)			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING					
(8.0' -) x (0.1666) ² x 3.14 x 7.48 = gallons in one well volume					
{ Well Depth - Water Level }		{ Well radius (ft) }			
_____ gallons in 3 well volumes		_____ gallons removed			
CALIBRATION					
Parameter	Time	Calibration	Before Sampling	Time	After Sampling
pH:					
EC:					
FIELD MEASUREMENTS					
Time	pH	EC (µS/cm)	Temp °C	Gallons Removed	Appearance
Water Level After Purging: _____ ft. (TOC)		80% of Original Water Level: _____ ft. (TOC)			
Water Level Before Sampling: _____ ft. (TOC)					
APPEARANCE OF SAMPLE:				Time: _____	
Bailer: Aqua Bailer Single Sample		Type: Disposable Polyethylene		GPM: _____	
Submersible:		Type:		GPM: _____	
Dedicated:		Type:		GPM: _____	
DECONTAMINATION METHOD: TSP wash and disposable bailers					
SAMPLE ANALYSIS: TPH-g, TPH-d, BTEX, 5 Fuel Oxygenates, Lead Scavengers					
LABORATORY: Alpha Analytical					

Project No. 00-750-4		Well No: MW-5			
Project Location: 2604 Ventura Ave., Santa Rosa, CA		Well Depth from TOC: 8.5'			
Global I.D. # T0609700769		Well Diameter: 4"			
Date: 7/12/2005		Product Level from TOC: None			
Time:		Water Level from TOC: 4.63'			
Recorded by: M. Wilmarth		Screened Interval:			
Purge Time (duration):		Well Elevation (TOC): 147.55' above MSL			
WEATHER					
Wind: 0-5 mph		Precip. in last 5 days: 0.00" (STA)			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING					
$(8.5' - \quad) \times (0.1666)^2 \times 3.14 \times 7.48 = \quad \text{gallons in one well volume}$					
{ Well Depth - Water Level }		{ Well radius (ft) }			
_____ gallons in 3 well volumes		_____ gallons removed			
CALIBRATION					
Parameter	Time	Calibration	Before Sampling	Time	After Sampling
pH:					
EC:					
FIELD MEASUREMENTS					
Time	pH	EC (µS/cm)	Temp °C	Gallons Removed	Appearance
Water Level After Purging: _____ ft. (TOC)		80% of Original Water Level: _____ ft. (TOC)			
Water Level Before Sampling: _____ ft. (TOC)					
APPEARANCE OF SAMPLE:				Time:	
Bailer: Aqua Bailer Single Sample		Type: Disposable Polyethylene		GPM:	
Submersible:		Type:		GPM:	
Dedicated:		Type:		GPM:	
DECONTAMINATION METHOD: TSP wash and disposable bailers					
SAMPLE ANALYSIS: TPH-g, TPH-d, BTEX, 5 Fuel Oxygenates, Lead Scavengers					
LABORATORY: Alpha Analytical					

Project No. 00-750-4		Well No: MW-6			
Project Location: 2604 Ventura Ave., Santa Rosa, CA		Well Depth from TOC: 15.0'			
Global I.D. # T0609700769		Well Diameter: 2"			
Date: 7/12/2005		Product Level from TOC: None			
Time: 1050		Water Level from TOC: 5.58'			
Recorded by: M. Wilmarth		Screened Interval: 5' -15'			
Purge Time (duration): 8 mins.		Well Elevation (TOC): 147.77' above MSL			
WEATHER					
Wind: 0-5 mph		Precip. in last 5 days: 0.00" (STA)			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING					
$(15' - 5.58') \times (0.08333')^2 \times 3.14 \times 7.48 = 1.54 \text{ gallons in one well volume}$					
{ Well Depth - Water Level }		{ Well radius (ft) }			
4.6 gallons in 3 well volumes		7.5 gallons removed			
CALIBRATION					
Parameter	Time	Calibration	Before Sampling	Time	After Sampling
pH:					
EC:					
FIELD MEASUREMENTS					
Time	pH	EC (µS/cm)	Temp °C	Gallons Removed	Appearance
1050	7.11	332	23.9	0.5	Clear, HC odor
1052	6.67	304	23.3	3	Clear, HC odor
1055	6.72	332	22.4	6	Dark cloudy, silty, grey, HC odor
1058	6.72	331	22.9	7.5	Dark cloudy, silty, grey, HC odor
Water Level After Purging: 11.95 ft. (TOC)			80% of Original Water Level: 7.46 ft. (TOC)		
Water Level Before Sampling: 5.66 ft. (TOC)					
APPEARANCE OF SAMPLE: Clear				Time: 1208	
Bailer: Aqua Bailer Single Sample		Type: Disposable Polyethylene		GPM:	
Submersible:		Type:		GPM:	
Dedicated:		Type:		GPM:	
DECONTAMINATION METHOD: TSP wash and disposable bailers					
SAMPLE ANALYSIS: TPH-g, TPH-d, BTEX, 5 Fuel Oxygenates, Lead Scavengers					
LABORATORY: Alpha Analytical					

Project No. 00-750-4		Well No: MW-7			
Project Location: 2604 Ventura Ave., Santa Rosa, CA		Well Depth from TOC: 20.0'			
Global I.D. # T0609700769		Well Diameter: 2"			
Date: 7/12/2005		Product Level from TOC: None			
Time: 1016		Water Level from TOC: 5.30'			
Recorded by: M. Wilmarth		Screened Interval: 5' -20'			
Purge Time (duration): 8 mins.		Well Elevation (TOC): 146.27' above MSL			
WEATHER					
Wind: 0-5 mph		Precip. in last 5 days: 0.00" (STA)			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING					
$(20' - 5.30') \times (0.08333)^2 \times 3.14 \times 7.48 = 2.40$ gallons in one well volume					
{ Well Depth - Water Level }		{ Well radius (ft) }			
7.19 gallons in 3 well volumes		7.5 gallons removed			
CALIBRATION					
Parameter	Time	Calibration	Before Sampling	Time	After Sampling
pH:					
EC:					
FIELD MEASUREMENTS					
Time	pH	EC (µS/cm)	Temp °C	Gallons Removed	Appearance
1016	7.17	325	20.3	0.5	Clear
1019	6.99	331	19.9	3	Cloudy brown
1022	6.97	330	19.6	6	Cloudy brown
1024	6.98	331	19.7	7.5	Cloudy brown
Water Level After Purging: 5.95 ft. (TOC)			80% of Original Water Level: 8.24 ft. (TOC)		
Water Level Before Sampling: 5.95 ft. (TOC)					
APPEARANCE OF SAMPLE: Clear				Time: 1033	
Bailer: Aqua Bailer Single Sample		Type: Disposable Polyethylene		GPM:	
Submersible:		Type:		GPM:	
Dedicated:		Type:		GPM:	
DECONTAMINATION METHOD: TSP wash and disposable bailers					
SAMPLE ANALYSIS: TPH-g, TPH-d, BTEX, 5 Fuel Oxygenates, Lead Scavengers					
LABORATORY: Alpha Analytical					

Project No. 00-750-4		Well No: MW-8			
Project Location: 2604 Ventura Ave., Santa Rosa, CA		Well Depth from TOC: 20.0'			
Global I.D. # T0609700769		Well Diameter: 2"			
Date: 7/12/2005		Product Level from TOC: None			
Time: 949		Water Level from TOC: 3.44'			
Recorded by: M. Wilmarth		Screened Interval: 5' -20'			
Purge Time (duration): 10 mins.		Well Elevation (TOC): 145.95' above MSL			
WEATHER					
Wind: 0-5 mph		Precip. in last 5 days: 0.00" (STA)			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING					
(20' - 3.44') x (0.08333) ² x 3.14 x 7.48 = 2.70 gallons in one well volume					
{ Well Depth - Water Level }		{ Well radius (ft) }			
8.10 gallons in 3 well volumes		8.5 gallons removed			
CALIBRATION					
Parameter	Time	Calibration	Before Sampling	Time	After Sampling
pH:					
EC:					
FIELD MEASUREMENTS					
Time	pH	EC (µS/cm)	Temp °C	Gallons Removed	Appearance
949	7.07	274	22.7	0.5	Clear
952	6.60	286	21.5	3	Slightly cloudy
955	6.60	283	20.6	6	Cloudy
959	6.63	280	20.6	8.5	Cloudy brown
Water Level After Purging: 11.70 ft. (TOC)			80% of Original Water Level: 6.75 ft. (TOC)		
Water Level Before Sampling: 11.70 ft. (TOC)					
APPEARANCE OF SAMPLE: Clear				Time: 1152	
Bailer: Aqua Bailer Single Sample		Type: Disposable Polyethylene		GPM:	
Submersible:		Type:		GPM:	
Dedicated:		Type:		GPM:	
DECONTAMINATION METHOD: TSP wash and disposable bailers					
SAMPLE ANALYSIS: TPH-g, TPH-d, BTEX, 5 Fuel Oxygenates, Lead Scavengers					
LABORATORY: Alpha Analytical					



alpha

Alpha Analytical Laboratories Inc.

208 Mason Street, Ukiah, California 95482

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21 April 2005

Sonoma County Facility Operations

Attn: Frank Donahue

2680 Ventura Ave

Santa Rosa, CA 95403

RE: SCFO - County Gas Site

Work Order: A504233

Enclosed are the results of analyses for samples received by the laboratory on 04/07/05 17:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nena M. Burgess For Sheri L. Speaks
Project Manager



Alpha Analytical Laboratories Inc.

208 Mason Street, Ukiah, California 95482

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CHEMICAL EXAMINATION REPORT

Page 1 of 14

Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 04/21/05 10:52
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A504233

Receipt Date/Time
04/07/2005 17:25

Client Code
SCFACOP

Client PO/Reference

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3	A504233-01	Water	04/06/05 12:45	04/07/05 17:25
MW-4	A504233-02	Water	04/06/05 12:10	04/07/05 17:25
MW-5	A504233-03	Water	04/06/05 13:35	04/07/05 17:25
MW-6	A504233-04	Water	04/06/05 11:30	04/07/05 17:25
MW-7	A504233-05	Water	04/06/05 16:00	04/07/05 17:25
MW-8	A504233-06	Water	04/06/05 15:10	04/07/05 17:25
BE-4	A504233-07	Water	04/06/05 14:05	04/07/05 17:25
QCTB	A504233-08	Water	04/06/05 08:00	04/07/05 17:25

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/21/2005



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CHEMICAL EXAMINATION REPORT

Page 2 of 14

Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 04/21/05 10:52
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A504233

Receipt Date/Time
04/07/2005 17:25

Client Code
SCFACOP

Client PO/Reference

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-3 (A504233-01)								
			Sample Type: Water			Sampled: 04/06/05 12:45		
TPH by EPA/LUFT GC/GCMS Methods								
TPH as Diesel	8015DRO	AD52006	04/19/05	04/20/05	1	ND ug/l		50
TPH as Gasoline	8260GRO	AD51402	04/13/05	04/13/05	"	ND "		50
Surrogate: Toluene-d8	"	"	"	"		120 %	70-129	
Surrogate: 1,4-Bromofluorobenzene	8015DRO	AD52006	04/19/05	04/20/05		68.7 %	20-152	
Volatile Organic Compounds by EPA Method 8260B								
Benzene	EPA 8260B	AD51407	04/13/05	04/13/05	1	ND ug/l		0.30
Toluene	"	"	"	"	"	ND "		0.30
Ethylbenzene	"	"	"	"	"	ND "		0.50
Xylenes (total)	"	"	"	"	"	ND "		0.50
Methyl tert-butyl ether	"	"	"	"	"	ND "		0.50
Di-isopropyl ether	"	"	"	"	"	ND "		0.50
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50
Tert-butyl alcohol	"	"	"	"	"	ND "		10
1,2-Dichloroethane	"	"	"	"	"	ND "		0.50
Chlorobenzene	"	"	"	"	"	ND "		0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50
Surrogate: Bromofluorobenzene	"	"	"	"		108 %	45-147	
Surrogate: Dibromofluoromethane	"	"	"	"		108 %	85-129	
Surrogate: Toluene-d8	"	"	"	"		120 %	74-137	

MW-4 (A504233-02)

Sample Type: Water

Sampled: 04/06/05 12:10

TPH by EPA/LUFT GC/GCMS Methods

TPH as Diesel	8015DRO	AD52006	04/19/05	04/20/05	1	ND ug/l	50	
TPH as Gasoline	8260GRO	AD51402	04/13/05	04/13/05	"	ND "	50	
Surrogate: Toluene-d8	"	"	"	"		114 %	70-129	
Surrogate: 1,4-Bromofluorobenzene	8015DRO	AD52006	04/19/05	04/20/05		60.3 %	20-152	

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/21/2005



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CHEMICAL EXAMINATION REPORT

Page 3 of 14

Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 04/21/05 10:52
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A504233

Receipt Date/Time
04/07/2005 17:25

Client Code
SCFACOP

Client PO/Reference

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-4 (A504233-02)	Sample Type: Water				Sampled: 04/06/05 12:10			
Volatile Organic Compounds by EPA Method 8260B								
Benzene	EPA 8260B	AD51407	04/13/05	04/13/05	1	ND ug/l	0.30	
Toluene	"	"	"	"	"	ND "	0.30	
Ethylbenzene	"	"	"	"	"	ND "	0.50	
Xylenes (total)	"	"	"	"	"	ND "	0.50	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Di-isopropyl ether	"	"	"	"	"	ND "	0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "	10	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50	
Chlorobenzene	"	"	"	"	"	ND "	0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		102 %	45-147	
Surrogate: Dibromofluoromethane	"	"	"	"		102 %	85-129	
Surrogate: Toluene-d8	"	"	"	"		114 %	74-137	

MW-5 (A504233-03)

Sample Type: Water

Sampled: 04/06/05 13:35

TPH by EPA/LUFT GC/GCMS Methods

TPH as Diesel	8015DRO	AD52006	04/19/05	04/20/05	1	ND ug/l	50
TPH as Gasoline	8260GRO	AD51402	04/13/05	04/13/05	"	ND "	50
Surrogate: Toluene-d8	"	"	"	"		115 %	70-129
Surrogate: 1,4-Bromofluorobenzene	8015DRO	AD52006	04/19/05	04/20/05		59.9 %	20-152

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/21/2005



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CHEMICAL EXAMINATION REPORT

Page 4 of 14

Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 04/21/05 10:52
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A504233

Receipt Date/Time
04/07/2005 17:25

Client Code
SCFACOP

Client PO/Reference

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-5 (A504233-03)	Sample Type: Water				Sampled: 04/06/05 13:35			
Volatile Organic Compounds by EPA Method 8260B								
Benzene	EPA 8260B	AD51407	04/13/05	04/13/05	1	ND ug/l		0.30
Toluene	"	"	"	"	"	ND "		0.30
Ethylbenzene	"	"	"	"	"	ND "		0.50
Xylenes (total)	"	"	"	"	"	ND "		0.50
Methyl tert-butyl ether	"	"	"	"	"	ND "		0.50
Di-isopropyl ether	"	"	"	"	"	ND "		0.50
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50
Tert-butyl alcohol	"	"	"	"	"	ND "		10
1,2-Dichloroethane	"	"	"	"	"	ND "		0.50
Chlorobenzene	"	"	"	"	"	ND "		0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50
Surrogate: Bromofluorobenzene	"	"	"	"		102 %	45-147	
Surrogate: Dibromofluoromethane	"	"	"	"		102 %	85-129	
Surrogate: Toluene-d8	"	"	"	"		115 %	74-137	

MW-6 (A504233-04)

Sample Type: Water

Sampled: 04/06/05 11:30

TPH by EPA/LUFT GC/GCMS Methods

TPH as Diesel	8015DRO	AD52006	04/19/05	04/20/05	0.952	840 ug/l	48	D-08
TPH as Gasoline	8260GRO	AD51501	04/14/05	04/15/05	50	5000 "	2500	
Surrogate: Toluene-d8	"	"	"	"		114 %	70-129	
Surrogate: 1,4-Bromofluorobenzene	8015DRO	AD52006	04/19/05	04/20/05		90.8 %	20-152	

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/21/2005



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CHEMICAL EXAMINATION REPORT

Page 5 of 14

Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 04/21/05 10:52
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A504233

Receipt Date/Time
04/07/2005 17:25

Client Code
SCFACOP

Client PO/Reference

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-6 (A504233-04)	Sample Type: Water				Sampled: 04/06/05 11:30			
Volatile Organic Compounds by EPA Method 8260B								
Benzene	EPA 8260B	AD51407	04/13/05	04/14/05	5	3.4 ug/l	1.5	
Toluene	"	"	"	"	"	ND "	1.5	R-06
Ethylbenzene	"	"	"	"	"	180 "	2.5	
Xylenes (total)	"	"	"	"	"	140 "	2.5	
Methyl tert-butyl ether	"	"	"	"	"	3.8 "	2.5	
Di-isopropyl ether	"	"	"	"	"	ND "	2.5	R-06
Ethyl tert-butyl ether	"	"	"	"	"	ND "	2.5	R-06
Tert-amyl methyl ether	"	"	"	"	"	ND "	2.5	R-06
Tert-butyl alcohol	"	"	"	"	"	ND "	50	R-06
1,2-Dichloroethane	"	"	"	"	"	ND "	2.5	R-06
Chlorobenzene	"	"	"	"	"	ND "	2.5	R-06
1,3-Dichlorobenzene	"	"	"	"	"	ND "	2.5	R-06
1,4-Dichlorobenzene	"	"	"	"	"	ND "	2.5	R-06
1,2-Dichlorobenzene	"	"	"	"	"	ND "	2.5	R-06
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	2.5	R-06
Surrogate: Bromofluorobenzene	"	"	"	"		112 %	45-147	
Surrogate: Dibromofluoromethane	"	"	"	"		96.8 %	85-129	
Surrogate: Toluene-d8	"	"	"	"		122 %	74-137	

MW-7 (A504233-05)

Sample Type: Water

Sampled: 04/06/05 16:00

TPH by EPA/LUFT GC/GCMS Methods

TPH as Diesel	8015DRO	AD52006	04/19/05	04/20/05	1	ND ug/l	50
TPH as Gasoline	8260GRO	AD51402	04/13/05	04/14/05	"	ND "	50
Surrogate: Toluene-d8	"	"	"	"		120 %	70-129
Surrogate: 1,4-Bromofluorobenzene	8015DRO	AD52006	04/19/05	04/20/05		98.1 %	20-152

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/21/2005



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CHEMICAL EXAMINATION REPORT

Page 6 of 14

Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 04/21/05 10:52
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A504233

Receipt Date/Time
04/07/2005 17:25

Client Code
SCFACOP

Client PO/Reference

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-7 (A504233-05)	Sample Type: Water				Sampled: 04/06/05 16:00			
Volatile Organic Compounds by EPA Method 8260B								
Benzene	EPA 8260B	AD51407	04/13/05	04/14/05	1	ND ug/l		0.30
Toluene	"	"	"	"	"	ND "		0.30
Ethylbenzene	"	"	"	"	"	ND "		0.50
Xylenes (total)	"	"	"	"	"	ND "		0.50
Methyl tert-butyl ether	"	"	"	"	"	4.3 "		0.50
Di-isopropyl ether	"	"	"	"	"	ND "		0.50
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50
Tert-butyl alcohol	"	"	"	"	"	ND "		10
1,2-Dichloroethane	"	"	"	"	"	ND "		0.50
Chlorobenzene	"	"	"	"	"	ND "		0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50
Surrogate: Bromofluorobenzene	"	"	"	"		106 %	45-147	
Surrogate: Dibromofluoromethane	"	"	"	"		108 %	85-129	
Surrogate: Toluene-d8	"	"	"	"		120 %	74-137	

MW-8 (A504233-06)

Sample Type: Water

Sampled: 04/06/05 15:10

TPH by EPA/LUFT GC/GCMS Methods

TPH as Diesel	8015DRO	AD52006	04/19/05	04/21/05	1	ND ug/l	50
TPH as Gasoline	8260GRO	AD51402	04/13/05	04/14/05	"	ND "	50
Surrogate: Toluene-d8	"	"	"	"		121 %	70-129
Surrogate: 1,4-Bromofluorobenzene	8015DRO	AD52006	04/19/05	04/21/05		98.1 %	20-152

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/21/2005



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CHEMICAL EXAMINATION REPORT

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Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 04/21/05 10:52
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A504233

Receipt Date/Time
04/07/2005 17:25

Client Code
SCFACOP

Client PO/Reference

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-8 (A504233-06)	Sample Type: Water				Sampled: 04/06/05 15:10			
Volatile Organic Compounds by EPA Method 8260B								
Benzene	EPA 8260B	AD51407	04/13/05	04/14/05	1	ND ug/l	0.30	
Toluene	"	"	"	"	"	ND "	0.30	
Ethylbenzene	"	"	"	"	"	ND "	0.50	
Xylenes (total)	"	"	"	"	"	ND "	0.50	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Di-isopropyl ether	"	"	"	"	"	ND "	0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "	10	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50	
Chlorobenzene	"	"	"	"	"	ND "	0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		107 %	45-147	
Surrogate: Dibromofluoromethane	"	"	"	"		106 %	85-129	
Surrogate: Toluene-d8	"	"	"	"		121 %	74-137	

BE-4 (A504233-07)

Sample Type: Water

Sampled: 04/06/05 14:05

TPH by EPA/LUFT GC/GCMS Methods

TPH as Diesel	8015DRO	AD52006	04/19/05	04/21/05	1	ND ug/l	50
TPH as Gasoline	8260GRO	AD51402	04/13/05	04/14/05	"	ND "	50
Surrogate: Toluene-d8	"	"	"	"		120 %	70-129
Surrogate: 1,4-Bromofluorobenzene	8015DRO	AD52006	04/19/05	04/21/05		94.8 %	20-152

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Project Manager

4/21/2005



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CHEMICAL EXAMINATION REPORT

Page 8 of 14

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Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 04/21/05 10:52
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A504233

Receipt Date/Time
04/07/2005 17:25

Client Code
SCFACOP

Client PO/Reference

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
BE-4 (A504233-07)		Sample Type: Water			Sampled: 04/06/05 14:05			
Volatile Organic Compounds by EPA Method 8260B								
Benzene	EPA 8260B	AD51407	04/13/05	04/14/05	1	ND ug/l		0.30
Toluene	"	"	"	"	"	ND "		0.30
Ethylbenzene	"	"	"	"	"	ND "		0.50
Xylenes (total)	"	"	"	"	"	ND "		0.50
Methyl tert-butyl ether	"	"	"	"	"	ND "		0.50
Di-isopropyl ether	"	"	"	"	"	ND "		0.50
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50
Tert-butyl alcohol	"	"	"	"	"	ND "		10
1,2-Dichloroethane	"	"	"	"	"	ND "		0.50
Chlorobenzene	"	"	"	"	"	ND "		0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50
Surrogate: Bromofluorobenzene	"	"	"	"		105 %	45-147	
Surrogate: Dibromofluoromethane	"	"	"	"		110 %	85-129	
Surrogate: Toluene-d8	"	"	"	"		120 %	74-137	

QCTB (A504233-08)

Sample Type: Water

Sampled: 04/06/05 08:00

TPH by EPA/LUFT GC/GCMS Methods

TPH as Gasoline	8260GRO	AD51402	04/13/05	04/14/05	1	ND ug/l	50
Surrogate: Toluene-d8	"	"	"	"		116 %	70-129

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks
Project Manager

4/21/2005



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208 Mason Street, Ukiah, California 95482

CHEMICAL EXAMINATION REPORT

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Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 04/21/05 10:52
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A504233

Receipt Date/Time
04/07/2005 17:25

Client Code
SCFACOP

Client PO/Reference

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD51402 - EPA 5030 Water GCMS										
Blank (AD51402-BLK1)				Prepared & Analyzed: 04/13/05						
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	28.5		"	25.0		114	70-129			
LCS (AD51402-BS1)				Prepared & Analyzed: 04/13/05						
TPH as Gasoline	171	50	ug/l	200		85.5	65-137			
Surrogate: Toluene-d8	29.1		"	25.0		116	70-129			
LCS Dup (AD51402-BSD1)				Prepared & Analyzed: 04/13/05						
TPH as Gasoline	166	50	ug/l	200		83.0	65-137	2.97	20	
Surrogate: Toluene-d8	29.1		"	25.0		116	70-129			
Matrix Spike (AD51402-MS1)				Source: A504233-01		Prepared & Analyzed: 04/13/05				
TPH as Gasoline	162	50	ug/l	200	ND	81.0	65-137			
Surrogate: Toluene-d8	31.9		"	25.0		128	70-129			
Batch AD51501 - EPA 5030 Water GCMS										
Blank (AD51501-BLK1)				Prepared & Analyzed: 04/14/05						
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	28.9		"	25.0		116	70-129			
LCS (AD51501-BS1)				Prepared & Analyzed: 04/14/05						
TPH as Gasoline	211	50	ug/l	200		106	65-137			
Surrogate: Toluene-d8	29.6		"	25.0		118	70-129			
LCS Dup (AD51501-BSD1)				Prepared & Analyzed: 04/14/05						
TPH as Gasoline	204	50	ug/l	200		102	65-137	3.37	20	

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Project Manager

4/21/2005



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CHEMICAL EXAMINATION REPORT

Page 10 of 14

Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 04/21/05 10:52
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A504233

Receipt Date/Time
04/07/2005 17:25

Client Code
SCFACOP

Client PO/Reference

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD51501 - EPA 5030 Water GCMS										
LCS Dup (AD51501-BSD1)				Prepared & Analyzed: 04/14/05						
Surrogate: Toluene-d8	30.9		"	25.0		124	70-129			
Matrix Spike (AD51501-MS1)				Source: A504241-02		Prepared & Analyzed: 04/14/05				
TPH as Gasoline	1050	50	ug/l	200	800	125	65-137			
Surrogate: Toluene-d8	29.6		"	25.0		118	70-129			
Batch AD52006 - EPA 3510B Water										
Blank (AD52006-BLK1)				Prepared: 04/19/05 Analyzed: 04/20/05						
TPH as Diesel	ND	50	ug/l							
Surrogate: 1,4-Bromofluorobenzene	536		"	579		92.6	20-152			
LCS (AD52006-BS1)				Prepared: 04/19/05 Analyzed: 04/20/05						
TPH as Diesel	2460	50	ug/l	1960		126	52-136			
Surrogate: 1,4-Bromofluorobenzene	589		"	579		102	20-152			
LCS Dup (AD52006-BSD1)				Prepared: 04/19/05 Analyzed: 04/20/05						
TPH as Diesel	2330	50	ug/l	1960		119	52-136	5.43	25	
Surrogate: 1,4-Bromofluorobenzene	548		"	579		94.6	20-152			

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4/21/2005



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CHEMICAL EXAMINATION REPORT

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Sonoma County Facility Operations
2680 Ventura Ave
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Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A504233

Receipt Date/Time
04/07/2005 17:25

Client Code
SCFACOP

Client PO/Reference

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD51407 - EPA 5030 Water GCMS										
Blank (AD51407-BLK1)				Prepared & Analyzed: 04/13/05						
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Tert-amyl methyl ether	ND	0.50	"							
Tert-butyl alcohol	ND	10	"							
1,2-Dichloroethane	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Surrogate: Bromofluorobenzene	25.6		"	25.0		102	45-147			
Surrogate: Dibromofluoromethane	25.7		"	25.0		103	85-129			
Surrogate: Toluene-d8	28.5		"	25.0		114	74-137			
LCS (AD51407-BS1)				Prepared & Analyzed: 04/13/05						
Benzene	10.6	0.30	ug/l	10.0		106	79-116			
Toluene	11.7	0.30	"	10.0		117	83-120			
Ethylbenzene	11.9	0.50	"	10.0		119	81-119			
Xylenes (total)	35.3	0.50	"	30.0		118	79-121			
Methyl tert-butyl ether	10.1	0.50	"	10.0		101	73-127			
Di-isopropyl ether	10.3	0.50	"	10.1		102	69-96			QL-03
Ethyl tert-butyl ether	9.70	0.50	"	10.2		95.1	76-117			

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/21/2005



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CHEMICAL EXAMINATION REPORT

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Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 04/21/05 10:52
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A504233

Receipt Date/Time
04/07/2005 17:25

Client Code
SCFACOP

Client PO/Reference

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD51407 - EPA 5030 Water GCMS										
LCS (AD51407-BS1)				Prepared & Analyzed: 04/13/05						
Tert-amyl methyl ether	10.6	0.50	"	10.3		103	80-122			
Tert-butyl alcohol	186	10	"	196		94.9	53-132			
1,2-Dichloroethane	10.2	0.50	"	10.0		102	78-115			
Chlorobenzene	10.8	0.50	"	10.0		108	82-112			
1,3-Dichlorobenzene	11.1	0.50	"	10.0		111	82-117			
1,4-Dichlorobenzene	10.5	0.50	"	10.0		105	85-113			
1,2-Dichlorobenzene	10.4	0.50	"	10.0		104	83-113			
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0		112	84-117			
Surrogate: Bromofluorobenzene	27.6		"	25.0		110	45-147			
Surrogate: Dibromofluoromethane	24.2		"	25.0		96.8	85-129			
Surrogate: Toluene-d8	28.0		"	25.0		112	74-137			
LCS Dup (AD51407-BSD1)				Prepared & Analyzed: 04/13/05						
Benzene	9.45	0.30	ug/l	10.0		94.5	79-116	11.5	25	
Toluene	10.7	0.30	"	10.0		107	83-120	8.93	25	
Ethylbenzene	10.7	0.50	"	10.0		107	81-119	10.6	25	
Xylenes (total)	32.0	0.50	"	30.0		107	79-121	9.81	25	
Methyl tert-butyl ether	9.77	0.50	"	10.0		97.7	73-127	3.32	25	
Di-isopropyl ether	9.50	0.50	"	10.1		94.1	69-96	8.08	25	
Ethyl tert-butyl ether	9.34	0.50	"	10.2		91.6	76-117	3.78	25	
Tert-amyl methyl ether	10.0	0.50	"	10.3		97.1	80-122	5.83	25	
Tert-butyl alcohol	192	10	"	196		98.0	53-132	3.17	25	
1,2-Dichloroethane	9.45	0.50	"	10.0		94.5	78-115	7.63	25	
Chlorobenzene	9.83	0.50	"	10.0		98.3	82-112	9.40	25	
1,3-Dichlorobenzene	10.0	0.50	"	10.0		100	82-117	10.4	25	
1,4-Dichlorobenzene	9.82	0.50	"	10.0		98.2	85-113	6.69	25	
1,2-Dichlorobenzene	9.64	0.50	"	10.0		96.4	83-113	7.58	25	

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/21/2005



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CHEMICAL EXAMINATION REPORT

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Client PO/Reference

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD51407 - EPA 5030 Water GCMS										
LCS Dup (AD51407-BSD1)				Prepared & Analyzed: 04/13/05						
1,2-Dibromoethane (EDB)	10.5	0.50	"	10.0		105	84-117	6.45	25	
Surrogate: Bromofluorobenzene	26.0		"	25.0		104	45-147			
Surrogate: Dibromofluoromethane	22.4		"	25.0		89.6	85-129			
Surrogate: Toluene-d8	26.1		"	25.0		104	74-137			
Matrix Spike (AD51407-MS1)				Source: A504189-01 Prepared & Analyzed: 04/13/05						
Benzene	5.54	0.30	ug/l	10.0	ND	55.4	63-144			QM-05
Toluene	6.27	0.30	"	10.0	ND	62.7	65-145			QM-05
Ethylbenzene	6.00	0.50	"	10.0	ND	60.0	57-155			
Xylenes (total)	17.8	0.50	"	30.0	ND	59.3	59-149			
Methyl tert-butyl ether	5.00	0.50	"	10.0	ND	50.0	62-156			QM-05
Di-isopropyl ether	5.49	0.50	"	10.1	ND	54.4	58-115			QM-05
Ethyl tert-butyl ether	5.13	0.50	"	10.2	ND	50.3	57-147			QM-05
Tert-amyl methyl ether	5.29	0.50	"	10.3	ND	51.4	53-153			QM-05
Tert-butyl alcohol	112	10	"	196	ND	57.1	41-147			
1,2-Dichloroethane	5.50	0.50	"	10.0	ND	55.0	61-134			QM-05
Chlorobenzene	5.75	0.50	"	10.0	ND	57.5	62-139			QM-05
1,3-Dichlorobenzene	5.49	0.50	"	10.0	ND	54.9	59-140			QM-05
1,4-Dichlorobenzene	5.45	0.50	"	10.0	ND	54.5	62-136			QM-05
1,2-Dichlorobenzene	5.25	0.50	"	10.0	ND	52.5	62-137			QM-05
1,2-Dibromoethane (EDB)	5.67	0.50	"	10.0	ND	56.7	58-140			QM-05
Surrogate: Bromofluorobenzene	26.9		"	25.0		108	45-147			
Surrogate: Dibromofluoromethane	23.8		"	25.0		95.2	85-129			
Surrogate: Toluene-d8	27.3		"	25.0		109	74-137			

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/21/2005



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CHEMICAL EXAMINATION REPORT

Page 14 of 14

Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 04/21/05 10:52
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A504233

Receipt Date/Time
04/07/2005 17:25

Client Code
SCFACOP

Client PO/Reference

Notes and Definitions

- R-06 The Reporting Limits for this analysis have been raised to account for matrix interference.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- QL-03 Although the LCS/LCSD recovery for this analyte is outside of in-house developed control limits, it is within the EPA recommended range of 70-130%.
- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit



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Work Order

Chain of Custody Record

Lab No. _____

Page 1 of 1

Company Name: EBA ENGINEERING		Project Name: SCFO - GAS		Project Number: 00-750-4		Signature below authorizes work under terms stated on reverse side.																		
Mailing Address: 825 SONOMA AVE, SR		Project Address:				Analysis Request												TAT						
Project Contact (Hardcopy or PDF to): DAVID NOREN		P.O. #		Quote #														24 hr <input type="radio"/>						
Phone/Fax: 544-0784		Bill to:																48 hr <input type="radio"/>						
Samplers Signature: 		Sampling		Container			Preservative			Matrix														Lab Approval Required <input type="radio"/>
Sample Designation		Date Time		40ml VOA	Poly	Amber	Sleeve	HCL	HNO3	H2SO4	None													Water
MW-3		4/6/05 1245															2 wk (Standard) <input checked="" type="radio"/>							
MW-4		1210																						
MW-5		1335																						
MW-6		1130																						
MW-7		1600																						
MW-8		1510																						
BE-4		1405																						
QCTB		0800																						
Relinquished by: 		Received by: 		Date 4/7/05		Time 14:00		California EDF Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Relinquished by: 		Received by: 		Date 4/7/05		Time 17:25		Sampling Company Log Code:																
Relinquished by:		Received for Laboratory by:		Date		Time		Global ID: T0609700768																
								EDF to (Email Address):																
Sample Condition on Receipt: 5.2		Travel and Site Time:		Misc. Supplies:		Drinking Water State System/Source Number:																		



REC'D JUL 26 2005

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22 July 2005

Sonoma County Facility Operations

Attn: Frank Donahue

2680 Ventura Ave

Santa Rosa, CA 95403

RE: SCFO - County Gas Site

Work Order: A507277

Enclosed are the results of analyses for samples received by the laboratory on 07/12/05 16:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa E. Jansen For Sheri L. Speaks
Project Manager



alpha

Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

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CHEMICAL EXAMINATION REPORT

Page 1 of 14

Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 07/22/05 10:43
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A507277	07/12/2005 16:15	SCFACOP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BE 4	A507277-01	Water	07/12/05 11:25	07/12/05 16:15
MW- 6	A507277-02	Water	07/12/05 12:08	07/12/05 16:15
MW- 7	A507277-03	Water	07/12/05 10:33	07/12/05 16:15
MW- 8	A507277-04	Water	07/12/05 11:52	07/12/05 16:15
QCTB	A507277-05	Water	07/12/05 07:15	07/12/05 16:15

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Lisa E. Jansen

Lisa E. Jansen For Sheri L. Speaks
Project Manager

7/22/05



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CHEMICAL EXAMINATION REPORT

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Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 07/22/05 10:43
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A507277

Receipt Date/Time
07/12/2005 16:15

Client Code
SCFACOP

Client PO/Reference

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
BE 4 (A507277-01)		Sample Type: Water			Sampled: 07/12/05 11:25			
TPH by EPA/LUFT GC/GCMS Methods								
TPH as Diesel	8015DRO	AG51413	07/14/05	07/15/05	1	ND ug/l	50	
TPH as Gasoline	8260GRO	AG52001	07/18/05	07/20/05	"	ND "	50	
Surrogate: Tetraetracontane	8015DRO	AG51413	07/14/05	07/15/05		96.4 %	20-152	
Surrogate: Toluene-d8	8260GRO	AG52001	07/18/05	07/20/05		96.8 %	70-129	
Volatile Organic Compounds by EPA Method 8260B								
Benzene	- EPA 8260B	AG52006	"	07/20/05	1	ND ug/l	0.30	
Toluene	"	"	"	"	"	ND "	0.30	
Ethylbenzene	"	"	"	"	"	ND "	0.50	
Xylenes (total)	"	"	"	"	"	ND "	0.50	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Di-isopropyl ether	"	"	"	"	"	ND "	0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "	10	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50	
Chlorobenzene	"	"	"	"	"	ND "	0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		103 %	78-138	
Surrogate: Dibromofluoromethane	"	"	"	"		90.0 %	71-136	
Surrogate: Toluene-d8	"	"	"	"		96.8 %	88-139	

MW- 6 (A507277-02)**Sample Type: Water****Sampled: 07/12/05 12:08****TPH by EPA/LUFT GC/GCMS Methods**

TPH as Diesel	8015DRO	AG51413	07/14/05	07/15/05	0.9302	740 ug/l	47	D-07
TPH as Gasoline	8260GRO	AG52001	07/18/05	07/20/05	20	5700 "	1000	
Surrogate: Tetraetracontane	8015DRO	AG51413	07/14/05	07/15/05		99.1 %	20-152	
Surrogate: Toluene-d8	8260GRO	AG52001	07/18/05	07/20/05		96.0 %	70-129	

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Lisa E. Jansen For Sheri L. Speaks
Project Manager

7/22/05



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CHEMICAL EXAMINATION REPORT

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Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 07/22/05 10:43
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A507277

Receipt Date/Time
07/12/2005 16:15

Client Code
SCFACOP

Client PO/Reference

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW- 6 (A507277-02)		Sample Type: Water			Sampled: 07/12/05 12:08		
Volatile Organic Compounds by EPA Method 8260B							
Benzene	EPA 8260B	AG52112	"	07/21/05	1	3.3 ug/l	0.30
Toluene	"	"	"	"	"	0.63 "	0.30
Ethylbenzene	"	"	"	07/20/05	20	150 "	10
Xylenes (total)	"	"	"	"	"	150 "	10
Methyl tert-butyl ether	"	"	"	07/21/05	1	2.5 "	0.50
Di-isopropyl ether	"	"	"	"	"	ND "	0.50
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50
Tert-butyl alcohol	"	"	"	"	"	ND "	10
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50
Chlorobenzene	"	"	"	"	"	ND "	0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50
Surrogate: Bromofluorobenzene	"	"	"	"		108 %	78-138
Surrogate: Dibromofluoromethane	"	"	"	"		85.6 %	71-136
Surrogate: Toluene-d8	"	"	"	"		94.4 %	88-139

MW- 7 (A507277-03)

Sample Type: Water

Sampled: 07/12/05 10:33

TPH by EPA/LUFT GC/GCMS Methods

TPH as Diesel	8015DRO	AG51413	07/14/05	07/15/05	1	ND ug/l	50
TPH as Gasoline	8260GRO	AG52001	07/18/05	07/20/05	"	ND "	50
Surrogate: Tetraetracontane	8015DRO	AG51413	07/14/05	07/15/05		82.3 %	20-152
Surrogate: Toluene-d8	8260GRO	AG52001	07/18/05	07/20/05		99.2 %	70-129

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Lisa E. Jansen For Sheri L. Speaks
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7/22/05



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Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 07/22/05 10:43
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A507277

Receipt Date/Time
07/12/2005 16:15

Client Code
SCFACOP

Client PO/Reference

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW- 7 (A507277-03)		Sample Type: Water				Sampled: 07/12/05 10:33		
Volatile Organic Compounds by EPA Method 8260B								
Benzene	EPA 8260B	AG52006	"	07/20/05	1	ND ug/l	0.30	
Toluene	"	"	"	"	"	ND "	0.30	
Ethylbenzene	"	"	"	"	"	ND "	0.50	
Xylenes (total)	"	"	"	"	"	ND "	0.50	
Methyl tert-butyl ether	"	"	"	"	"	4.8 "	0.50	
Di-isopropyl ether	"	"	"	"	"	ND "	0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "	10	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50	
Chlorobenzene	"	"	"	"	"	ND "	0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		106 %	78-138	
Surrogate: Dibromofluoromethane	"	"	"	"		93.6 %	71-136	
Surrogate: Toluene-d8	"	"	"	"		99.2 %	88-139	

MW- 8 (A507277-04)**Sample Type: Water****Sampled: 07/12/05 11:52****TPH by EPA/LUFT GC/GCMS Methods**

TPH as Diesel	8015DRO	AG51413	07/14/05	07/15/05	1	ND ug/l	50
TPH as Gasoline	8260GRO	AG52001	07/18/05	07/20/05	"	ND "	50
Surrogate: Tetraetracontane	8015DRO	AG51413	07/14/05	07/15/05		93.6 %	20-152
Surrogate: Toluene-d8	8260GRO	AG52001	07/18/05	07/20/05		97.2 %	70-129

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Lisa E. Jansen For Sheri L. Speaks
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7/22/05



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Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 07/22/05 10:43
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A507277	07/12/2005 16:15	SCFACOP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW- 8 (A507277-04)		Sample Type: Water				Sampled: 07/12/05 11:52		
Volatile Organic Compounds by EPA Method 8260B								
Benzene	EPA 8260B	AG52006	"	07/20/05	1	ND ug/l	0.30	
Toluene	"	"	"	"	"	ND "	0.30	
Ethylbenzene	"	"	"	"	"	ND "	0.50	
Xylenes (total)	"	"	"	"	"	ND "	0.50	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Di-isopropyl ether	"	"	"	"	"	ND "	0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "	10	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50	
Chlorobenzene	"	"	"	"	"	ND "	0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		104 %	78-138	
Surrogate: Dibromofluoromethane	"	"	"	"		92.4 %	71-136	
Surrogate: Toluene-d8	"	"	"	"		97.2 %	88-139	

QCTB (A507277-05)

Sample Type: Water

Sampled: 07/12/05 07:15

TPH by EPA/LUFT GC/GCMS Methods

TPH as Gasoline	8260GRO	AG52001	07/18/05	07/20/05	1	ND ug/l	50
Surrogate: Toluene-d8	"	"	"	"		96.4 %	70-129

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Project Manager

7/22/05



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Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 07/22/05 10:43
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A507277	07/12/2005 16:15	SCFACOP	

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG51413 - EPA 3510B Water										
Blank (AG51413-BLK1)				Prepared & Analyzed: 07/14/05						
TPH as Diesel	ND	50	ug/l							
Surrogate: Tetratetracontane	10.4		"	11.0		94.5	20-152			
LCS (AG51413-BS1)				Prepared & Analyzed: 07/14/05						
TPH as Diesel	1370	50	ug/l	2000		68.5	52-136			
Surrogate: Tetratetracontane	11.3		"	11.0		103	20-152			
Matrix Spike (AG51413-MS1)				Source: A507238-03		Prepared & Analyzed: 07/14/05				
TPH as Diesel	1420	50	ug/l	2000	ND	68.6	61-129			
Surrogate: Tetratetracontane	10.8		"	11.0		98.2	20-152			
Matrix Spike Dup (AG51413-MSD1)				Source: A507238-03		Prepared & Analyzed: 07/14/05				
TPH as Diesel	1430	50	ug/l	2000	ND	69.1	61-129	0.702	25	
Surrogate: Tetratetracontane	9.95		"	11.0		90.5	20-152			
Batch AG52001 - EPA 5030 Water GCMS										
Blank (AG52001-BLK1)				Prepared: 07/18/05 Analyzed: 07/19/05						
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	24.8		"	25.0		99.2	70-129			
LCS (AG52001-BS1)				Prepared: 07/18/05 Analyzed: 07/19/05						
TPH as Gasoline	196	50	ug/l	200		98.0	65-137			
Surrogate: Toluene-d8	25.1		"	25.0		100	70-129			
LCS Dup (AG52001-BSD1)				Prepared: 07/18/05 Analyzed: 07/19/05						
TPH as Gasoline	185	50	ug/l	200		92.5	65-137	5.77	20	

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CHEMICAL EXAMINATION REPORT

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Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 07/22/05 10:43
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A507277	07/12/2005 16:15	SCFACOP	

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG52001 - EPA 5030 Water GCMS										
LCS Dup (AG52001-BSD1)				Prepared: 07/18/05 Analyzed: 07/19/05						
Surrogate: Toluene-d8	24.8		"	25.0		99.2	70-129			
Matrix Spike (AG52001-MS1)				Source: A507227-02 Prepared: 07/18/05 Analyzed: 07/19/05						
TPH as Gasoline	170	50	ug/l	200	ND	73.5	65-137			
Surrogate: Toluene-d8	24.5		"	25.0		98.0	70-129			

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Sonoma County Facility Operations
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Project ID: SCFO - County Gas Site

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A507277	07/12/2005 16:15	SCFACOP	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG52006 - EPA 5030 Water GCMS										
Blank (AG52006-BLK1)				Prepared: 07/18/05 Analyzed: 07/19/05						
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Tert-amyl methyl ether	ND	0.50	"							
Tert-butyl alcohol	ND	10	"							
1,2-Dichloroethane	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Surrogate: Bromofluorobenzene	26.1		"	25.0		104	78-138			
Surrogate: Dibromofluoromethane	23.0		"	25.0		92.0	71-136			
Surrogate: Toluene-d8	24.8		"	25.0		99.2	88-139			
LCS (AG52006-BS1)				Prepared: 07/18/05 Analyzed: 07/19/05						
Benzene	10.5	0.30	ug/l	10.0		105	68-129			
Toluene	10.2	0.30	"	10.0		102	76-137			
Ethylbenzene	10.5	0.50	"	10.0		105	78-136			
Xylenes (total)	30.8	0.50	"	30.0		103	76-134			
Methyl tert-butyl ether	10.1	0.50	"	10.0		101	64-141			
Di-isopropyl ether	10.3	0.50	"	10.1		102	80-132			
Ethyl tert-butyl ether	10.4	0.50	"	10.2		102	66-138			

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Project Manager

7/22/05



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CHEMICAL EXAMINATION REPORT

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Sonoma County Facility Operations
2680 Ventura Ave
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Report Date: 07/22/05 10:43
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number
A507277

Receipt Date/Time
07/12/2005 16:15

Client Code
SCFACOP

Client PO/Reference

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG52006 - EPA 5030 Water GCMS										
LCS (AG52006-BS1)				Prepared: 07/18/05 Analyzed: 07/19/05						
Tert-amyl methyl ether	10.1	0.50	"	10.3		98.1	58-142			
Tert-butyl alcohol	174	10	"	196		88.8	70-139			
1,2-Dichloroethane	10.6	0.50	"	10.0		106	65-125			
Chlorobenzene	10.4	0.50	"	10.0		104	75-127			
1,3-Dichlorobenzene	10.4	0.50	"	10.0		104	78-129			
1,4-Dichlorobenzene	10.6	0.50	"	10.0		106	82-124			
1,2-Dichlorobenzene	10.3	0.50	"	10.0		103	81-125			
1,2-Dibromoethane (EDB)	10.5	0.50	"	10.0		105	80-130			
Surrogate: Bromofluorobenzene	24.9		"	25.0		99.6	78-138			
Surrogate: Dibromofluoromethane	23.2		"	25.0		92.8	71-136			
Surrogate: Toluene-d8	23.1		"	25.0		92.4	88-139			
LCS Dup (AG52006-BSD1)				Prepared: 07/18/05 Analyzed: 07/19/05						
Benzene	10.7	0.30	ug/l	10.0		107	68-129	1.89	25	
Toluene	10.4	0.30	"	10.0		104	76-137	1.94	25	
Ethylbenzene	10.7	0.50	"	10.0		107	78-136	1.89	25	
Xylenes (total)	31.3	0.50	"	30.0		104	76-134	1.61	25	
Methyl tert-butyl ether	10.3	0.50	"	10.0		103	64-141	1.96	25	
Di-isopropyl ether	10.6	0.50	"	10.1		105	80-132	2.87	25	
Ethyl tert-butyl ether	10.5	0.50	"	10.2		103	66-138	0.957	25	
Tert-amyl methyl ether	10.3	0.50	"	10.3		100	58-142	1.96	25	
Tert-butyl alcohol	189	10	"	196		96.4	70-139	8.26	25	
1,2-Dichloroethane	10.8	0.50	"	10.0		108	65-125	1.87	25	
Chlorobenzene	10.6	0.50	"	10.0		106	75-127	1.90	25	
1,3-Dichlorobenzene	10.6	0.50	"	10.0		106	78-129	1.90	25	
1,4-Dichlorobenzene	10.8	0.50	"	10.0		108	82-124	1.87	25	
1,2-Dichlorobenzene	10.5	0.50	"	10.0		105	81-125	1.92	25	

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Sonoma County Facility Operations
2680 Ventura Ave
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Report Date: 07/22/05 10:43
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A507277	07/12/2005 16:15	SCFACOP	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG52006 - EPA 5030 Water GCMS										
LCS Dup (AG52006-BSD1)				Prepared: 07/18/05 Analyzed: 07/19/05						
1,2-Dibromoethane (EDB)	10.6	0.50	"	10.0		106	80-130	0.948	25	
Surrogate: Bromofluorobenzene	25.0		"	25.0		100	78-138			
Surrogate: Dibromofluoromethane	23.2		"	25.0		92.8	71-136			
Surrogate: Toluene-d8	23.2		"	25.0		92.8	88-139			
Matrix Spike (AG52006-MS1)				Source: A507227-01 Prepared: 07/18/05 Analyzed: 07/19/05						
Benzene	9.93	0.30	ug/l	10.0	ND	99.3	39-142			
Toluene	8.92	0.30	"	10.0	ND	89.2	44-148			
Ethylbenzene	8.47	0.50	"	10.0	ND	84.7	42-148			
Xylenes (total)	25.3	0.50	"	30.0	ND	84.3	43-145			
Methyl tert-butyl ether	12.1	0.50	"	10.0	0.55	116	29-161			
Di-isopropyl ether	11.6	0.50	"	10.1	ND	112	42-156			
Ethyl tert-butyl ether	11.6	0.50	"	10.2	ND	114	42-151			
Tert-amyl methyl ether	11.6	0.50	"	10.3	ND	113	38-148			
Tert-butyl alcohol	214	10	"	196	ND	109	42-171			
1,2-Dichloroethane	11.9	0.50	"	10.0	ND	119	36-136			
Chlorobenzene	10.2	0.50	"	10.0	0.60	96.0	41-140			
1,3-Dichlorobenzene	8.73	0.50	"	10.0	ND	87.3	42-139			
1,4-Dichlorobenzene	9.05	0.50	"	10.0	ND	90.5	41-142			
1,2-Dichlorobenzene	10.4	0.50	"	10.0	ND	99.1	39-145			
1,2-Dibromoethane (EDB)	11.8	0.50	"	10.0	ND	118	40-147			
Surrogate: Bromofluorobenzene	25.4		"	25.0		102	78-138			
Surrogate: Dibromofluoromethane	23.3		"	25.0		93.2	71-136			
Surrogate: Toluene-d8	23.4		"	25.0		93.6	88-139			

Batch AG52112 - EPA 5030 Water GCMS

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Lisa E. Jansen For Sheri L. Speaks
Project Manager

7/22/05



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CHEMICAL EXAMINATION REPORT

Page 11 of 14

Sonoma County Facility Operations
2680 Ventura Ave
Santa Rosa, CA 95403
Attn: Frank Donahue

Report Date: 07/22/05 10:43
Project No: 00-750-4 / 080-6-1769
Project ID: SCFO - County Gas Site

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A507277	07/12/2005 16:15	SCFACOP	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG52112 - EPA 5030 Water GCMS										
Blank (AG52112-BLK1)				Prepared & Analyzed: 07/20/05						
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Tert-amyl methyl ether	ND	0.50	"							
Tert-butyl alcohol	ND	10	"							
1,2-Dichloroethane	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Surrogate: Bromofluorobenzene	26.5		"	25.0		106	78-138			
Surrogate: Dibromofluoromethane	23.4		"	25.0		93.6	71-136			
Surrogate: Toluene-d8	24.7		"	25.0		98.8	88-139			
LCS (AG52112-BS1)										
				Prepared & Analyzed: 07/20/05						
Benzene	10.8	0.30	ug/l	10.0		108	68-129			
Toluene	10.4	0.30	"	10.0		104	76-137			
Ethylbenzene	10.7	0.50	"	10.0		107	78-136			
Xylenes (total)	31.8	0.50	"	30.0		106	76-134			
Methyl tert-butyl ether	10.3	0.50	"	10.0		103	64-141			
Di-isopropyl ether	10.6	0.50	"	10.1		105	80-132			
Ethyl tert-butyl ether	10.2	0.50	"	10.2		100	66-138			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG52112 - EPA 5030 Water GCMS										
LCS (AG52112-BS1)				Prepared & Analyzed: 07/20/05						
Tert-amyl methyl ether	10.2	0.50	"	10.3		99.0	58-142			
Tert-butyl alcohol	175	10	"	196		89.3	70-139			
1,2-Dichloroethane	11.0	0.50	"	10.0		110	65-125			
Chlorobenzene	10.6	0.50	"	10.0		106	75-127			
1,3-Dichlorobenzene	10.8	0.50	"	10.0		108	78-129			
1,4-Dichlorobenzene	10.9	0.50	"	10.0		109	82-124			
1,2-Dichlorobenzene	10.8	0.50	"	10.0		108	81-125			
1,2-Dibromoethane (EDB)	10.9	0.50	"	10.0		109	80-130			
Surrogate: Bromofluorobenzene	25.2		"	25.0		101	78-138			
Surrogate: Dibromofluoromethane	22.8		"	25.0		91.2	71-136			
Surrogate: Toluene-d8	22.9		"	25.0		91.6	88-139			
LCS Dup (AG52112-BS1)				Prepared & Analyzed: 07/20/05						
Benzene	10.8	0.30	ug/l	10.0		108	68-129	0.00	25	
Toluene	10.4	0.30	"	10.0		104	76-137	0.00	25	
Ethylbenzene	10.8	0.50	"	10.0		108	78-136	0.930	25	
Xylenes (total)	31.5	0.50	"	30.0		105	76-134	0.948	25	
Methyl tert-butyl ether	10.1	0.50	"	10.0		101	64-141	1.96	25	
Di-isopropyl ether	10.6	0.50	"	10.1		105	80-132	0.00	25	
Ethyl tert-butyl ether	10.2	0.50	"	10.2		100	66-138	0.00	25	
Tert-amyl methyl ether	10.2	0.50	"	10.3		99.0	58-142	0.00	25	
Tert-butyl alcohol	186	10	"	196		94.9	70-139	6.09	25	
1,2-Dichloroethane	11.0	0.50	"	10.0		110	65-125	0.00	25	
Chlorobenzene	10.8	0.50	"	10.0		108	75-127	1.87	25	
1,3-Dichlorobenzene	10.8	0.50	"	10.0		108	78-129	0.00	25	
1,4-Dichlorobenzene	11.0	0.50	"	10.0		110	82-124	0.913	25	
1,2-Dichlorobenzene	10.6	0.50	"	10.0		106	81-125	1.87	25	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG52112 - EPA 5030 Water GCMS										
LCS Dup (AG52112-BSD1)				Prepared & Analyzed: 07/20/05						
1,2-Dibromoethane (EDB)	10.7	0.50	"	10.0		107	80-130	1.85	25	
Surrogate: Bromofluorobenzene	25.1		"	25.0		100	78-138			
Surrogate: Dibromofluoromethane	22.1		"	25.0		88.4	71-136			
Surrogate: Toluene-d8	22.4		"	25.0		89.6	88-139			
Matrix Spike (AG52112-MS1)				Source: A507297-03 Prepared & Analyzed: 07/20/05						
Benzene	10.5	0.30	ug/l	10.0	ND	105	39-142			
Toluene	10.1	0.30	"	10.0	ND	101	44-148			
Ethylbenzene	10.5	0.50	"	10.0	ND	105	42-148			
Xylenes (total)	30.5	0.50	"	30.0	ND	102	43-145			
Methyl tert-butyl ether	29.0	0.50	"	10.0	18	110	29-161			
Di-isopropyl ether	9.83	0.50	"	10.1	ND	97.3	42-156			
Ethyl tert-butyl ether	9.58	0.50	"	10.2	ND	93.9	42-151			
Tert-amyl methyl ether	9.48	0.50	"	10.3	ND	92.0	38-148			
Tert-butyl alcohol	180	10	"	196	ND	91.8	42-171			
1,2-Dichloroethane	10.6	0.50	"	10.0	ND	106	36-136			
Chlorobenzene	10.2	0.50	"	10.0	ND	102	41-140			
1,3-Dichlorobenzene	10.3	0.50	"	10.0	ND	103	42-139			
1,4-Dichlorobenzene	10.2	0.50	"	10.0	ND	102	41-142			
1,2-Dichlorobenzene	9.96	0.50	"	10.0	ND	99.6	39-145			
1,2-Dibromoethane (EDB)	10.3	0.50	"	10.0	ND	103	40-147			
Surrogate: Bromofluorobenzene	25.5		"	25.0		102	78-138			
Surrogate: Dibromofluoromethane	22.6		"	25.0		90.4	71-136			
Surrogate: Toluene-d8	22.8		"	25.0		91.2	88-139			

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A507277	07/12/2005 16:15	SCFACOP	

Notes and Definitions

D-07 Analysis of this sample indicates the presence of hydrocarbons lower in molecular weight than diesel.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

PQL Practical Quantitation Limit

Work Order
Chain of Custody Record

Lab No. A50727

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